

2.0L gasoline engine , CHJA
from December 2011



Audi

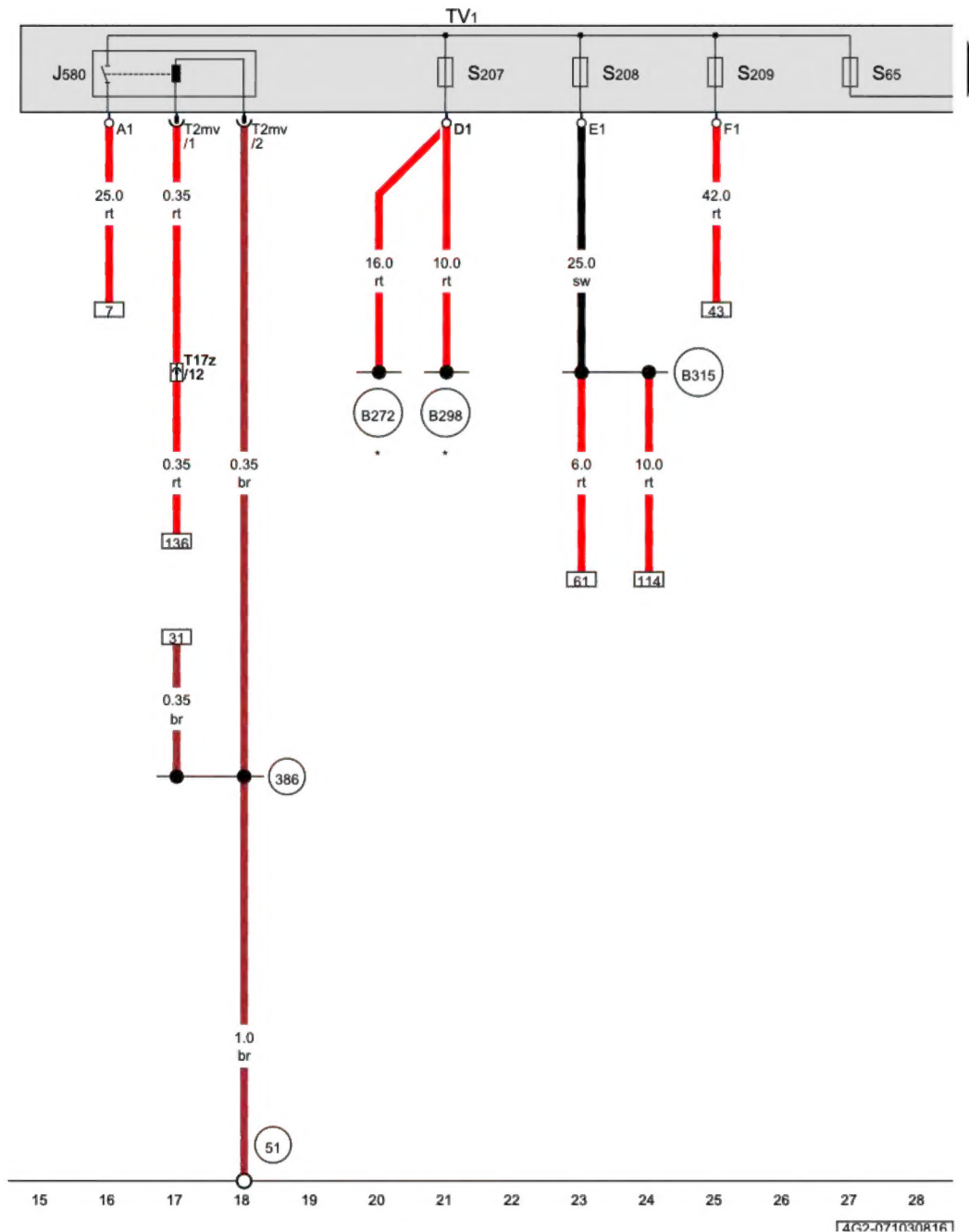
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erWin



* Main fuse carrier in the right rear luggage compartment, at the battery

Starter battery switch-over relay, Wire junction



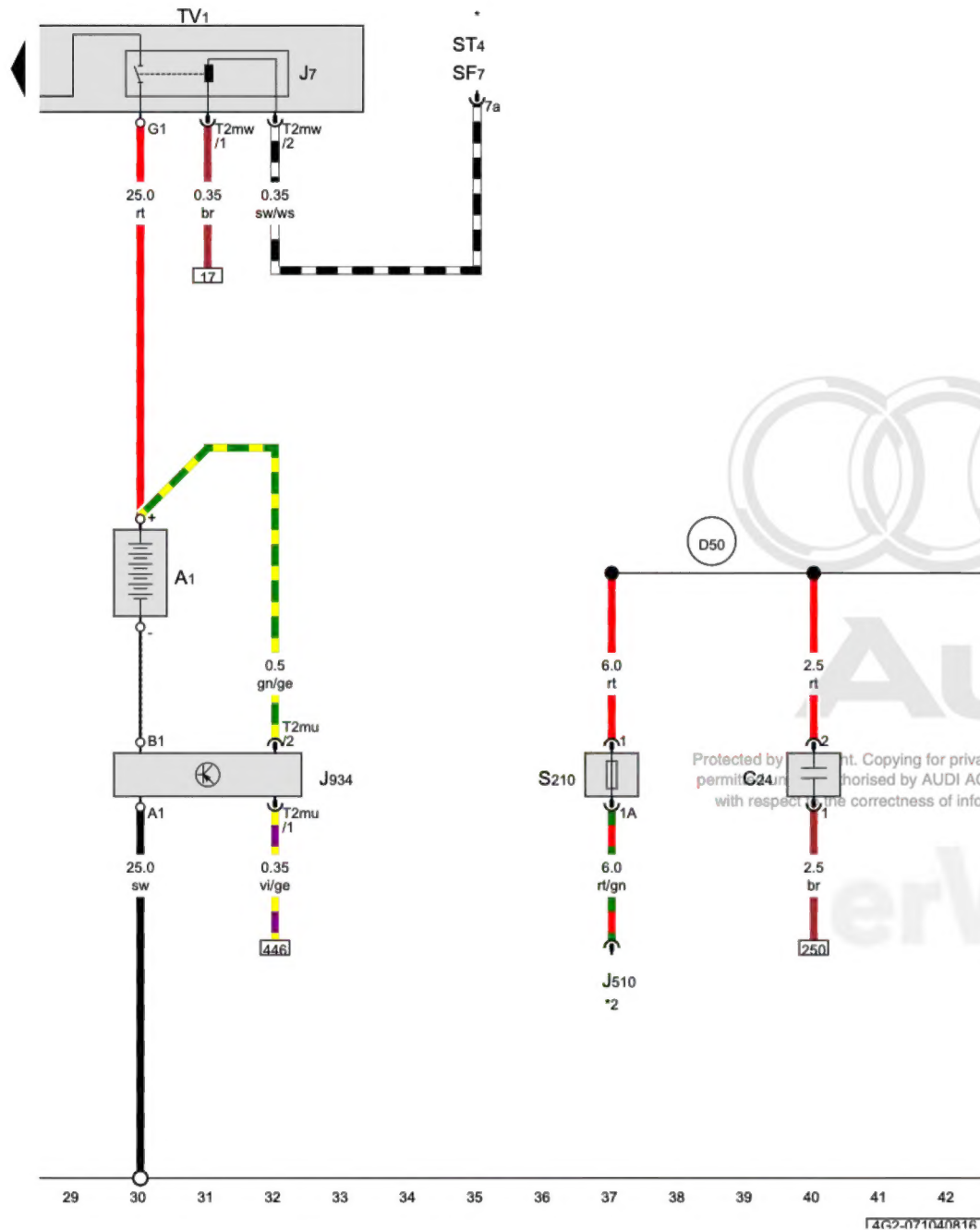
- J580 Starter battery switch-over relay
- S65 Auxiliary battery fuse
- S207 Fuse 4 (terminal 30)
- S208 Fuse 5 (terminal 30)
- S209 Fuse 6 (terminal 30)
- T2mv 2-pin connector
- T17z 17-pin connector, Left plenum chamber E-box connector station
- TV1 Wire junction, in the luggage compartment, spare wheel well

- 51 Ground connection in luggage compartment, right
- 386 Ground connection 21 (in main wiring harness)
- B272 Positive connection (30) (in main wiring harness)
- B298 Positive connection 2 (30) (in main wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)

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* Refer to applicable wiring diagram for fuse positions

- ws = white
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Auxiliary battery, Suppressor, Battery cut-out relay, Battery monitoring control module 2, Wire junction

- A1 Auxiliary battery
- C24 Suppressor
- J7 Battery cut-out relay
- J510 Transmission hydraulic pump relay
- J934 Battery monitoring control module 2
- ST4 Fuse panel 4
- SF7 Fuse 7 (on fuse panel F)
- S210 Fuse 7 (terminal 30)
- T2mu 2-pin connector
- T2mw 2-pin connector
- TV1 Wire junction, in the luggage compartment, spare wheel well
- D50 Positive connection (30) (in engine compartment wiring harness)
- * Refer to applicable wiring diagram for fuse positions
- *2 Refer to applicable wiring diagram for automatic transmission

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B	Starter
JX1	Electric drive power and control electronics
J500	Power steering control module
S42	Radiator fan fuse
S104	Radiator fan second speed fuse
S204	Fuse 1 (terminal 30), in the engine compartment, left front
S205	Fuse 2 (terminal 30), in the engine compartment, left front
S330	Fuse in wire junction
TV2	Terminal 30 wire junction
T5	5-pin connector, in the center plenum chamber
TV22	Terminal 30 wire junction 2
U6	Battery jump start terminal
D50	Positive connection (30) (in engine compartment wiring harness)

* Refer to applicable high-voltage system wiring diagram

Starter relay, Terminal 15 power supply relay, Starter relay 2

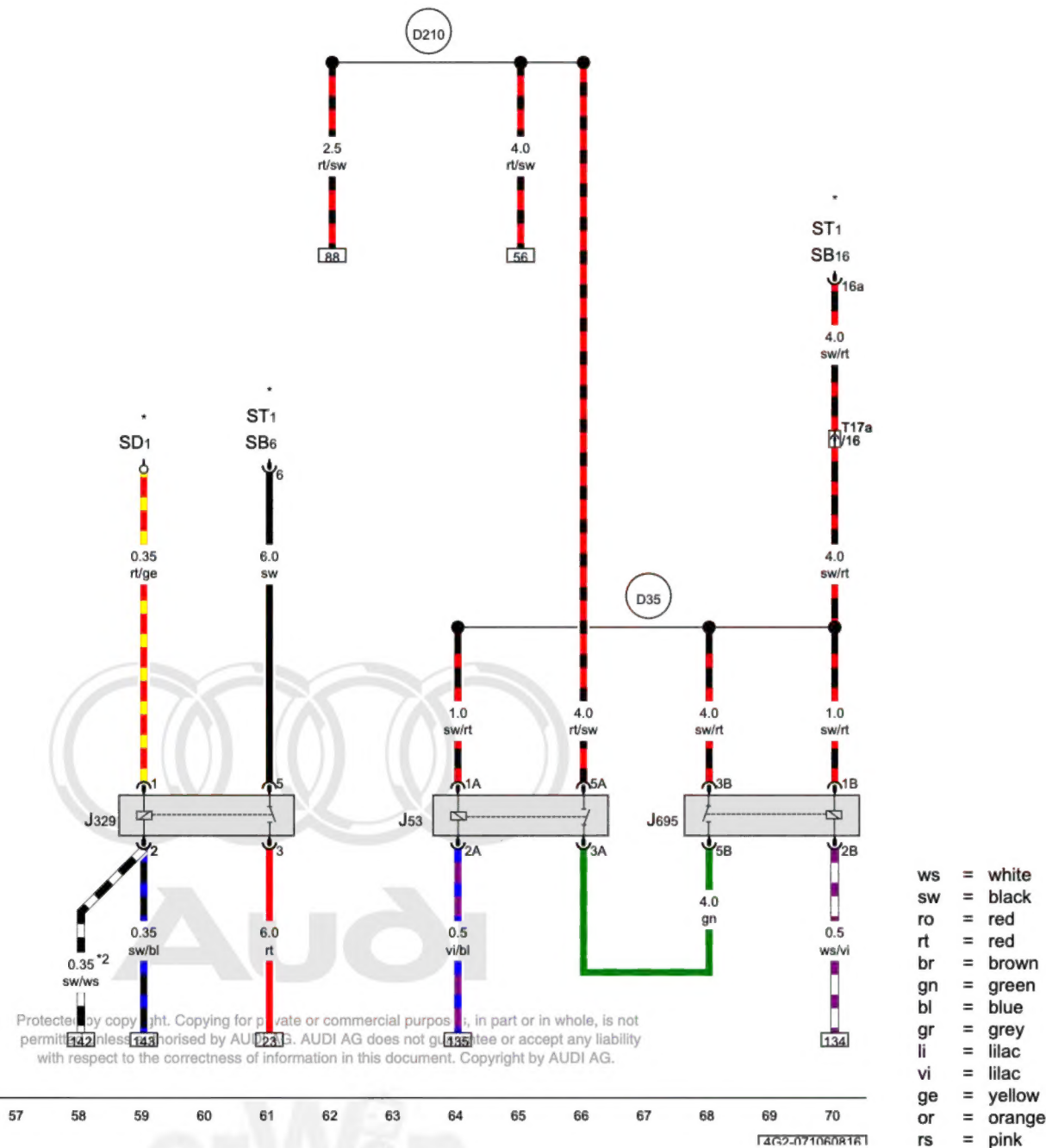
- J53 Starter relay
- J329 Terminal 15 power supply relay
- J695 Starter relay 2
- ST1 Fuse panel 1
- SD1 Fuse 1 (on fuse panel D)
- SB6 Fuse 6 (on fuse panel B)
- SB16 Fuse 16 (on fuse panel B)
- T17a 17-pin connector, Left plenum chamber E-box connector station

D35 Positive connection 1 (15a) (in engine pre-wiring harness)

D210 Connection 50 (in engine compartment wiring harness)

* Refer to applicable wiring diagram for fuse positions

*2 Only for right-hand drive vehicles

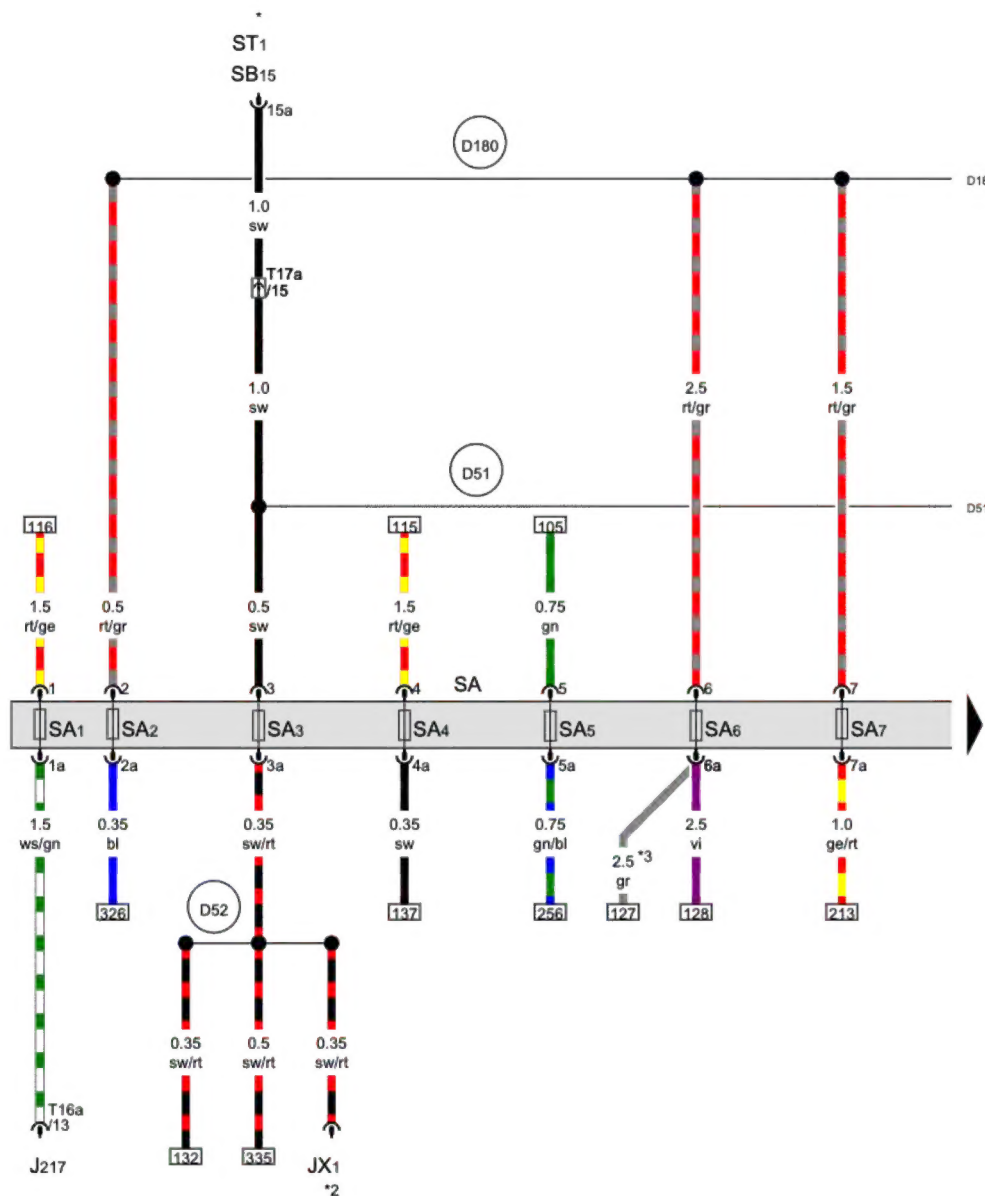


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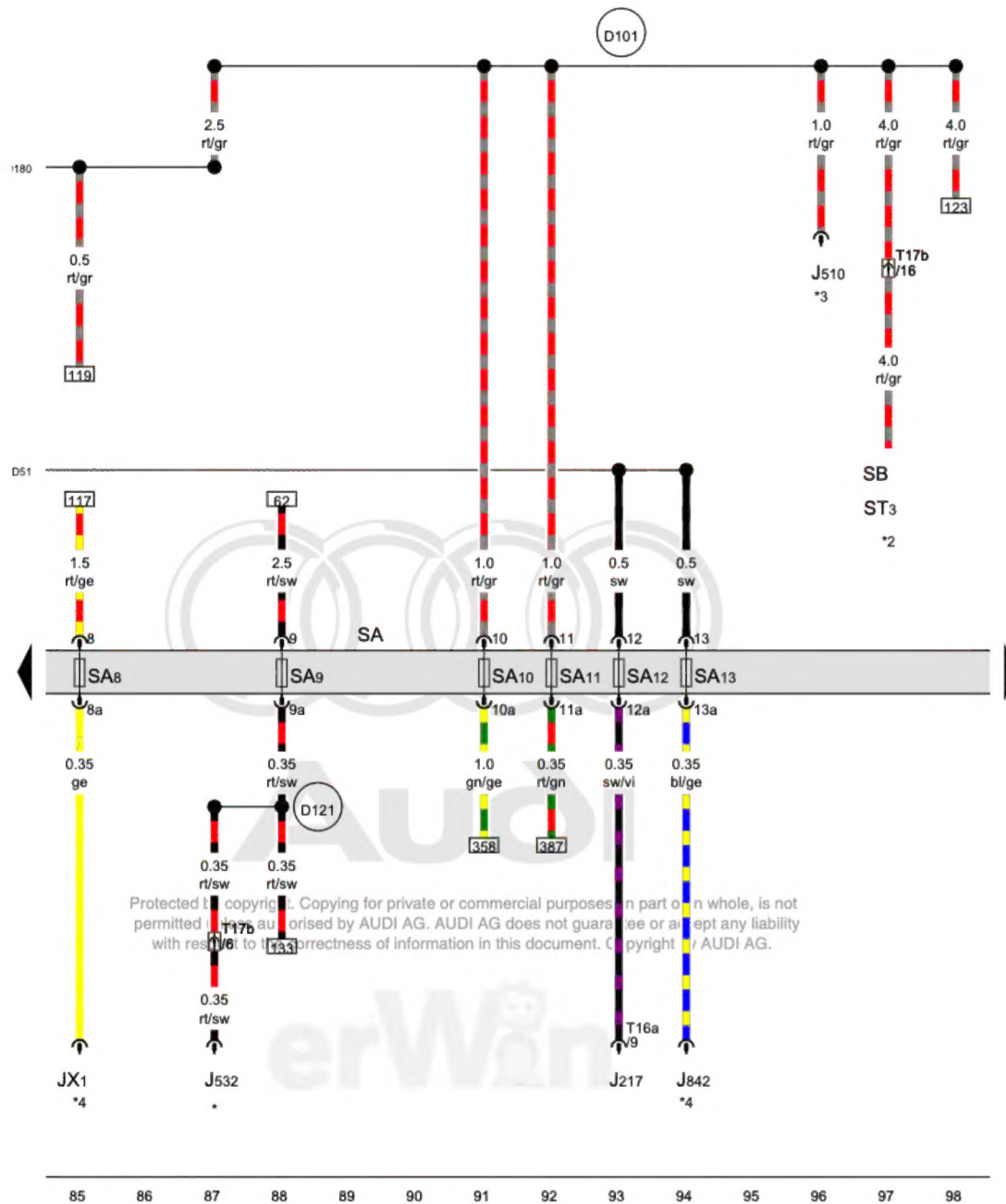
Fuse panel A

- JX1 Electric drive power and control electronics
- J217 Transmission control module
- SA Fuse panel A
- ST1 Fuse panel 1
- SA1 Fuse 1 (on fuse panel A)
- SA2 Fuse 2 (on fuse panel A)
- SA3 Fuse 3 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SA5 Fuse 5 (on fuse panel A)
- SA6 Fuse 6 (on fuse panel A)
- SA7 Fuse 7 (on fuse panel A)
- SB15 Fuse 15 (on fuse panel B)
- T16a 16-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- D51 Positive connection 1 (15) (in engine compartment wiring harness)
- D52 Positive connection (15a) (in engine compartment wiring harness)
- D180 Connection 87a (in engine compartment wiring harness)
- * Refer to applicable wiring diagram for fuse positions
- *2 Refer to applicable high-voltage system wiring diagram from August 2013
- *3



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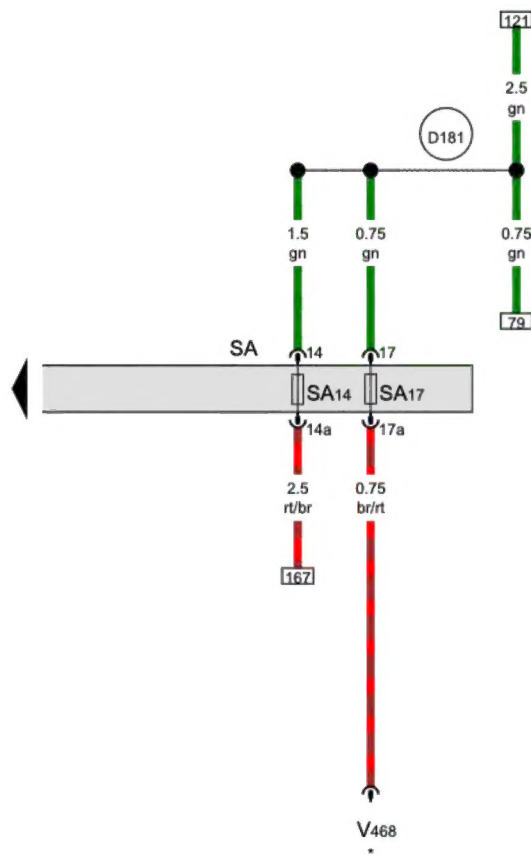
Fuse panel A

- JX1 Electric drive power and control electronics
- J217 Transmission control module
- J510 Transmission hydraulic pump relay
- J532 Voltage stabilizer
- J842 A/C compressor control module
- SA Fuse panel A
- ST3 Fuse panel 3
- SA8 Fuse 8 (on fuse panel A)
- SA9 Fuse 9 (on fuse panel A)
- SA10 Fuse 10 (on fuse panel A)
- SA11 Fuse 11 (on fuse panel A)
- SA12 Fuse 12 (on fuse panel A)
- SA13 Fuse 13 (on fuse panel A)
- SB Fuse panel B
- T16a 16-pin connector
- T17b 17-pin connector, Left plenum chamber E-box connector station
- D51 Positive connection 1 (15) (in engine compartment wiring harness)
- D101 Connection 1 (in engine compartment wiring harness)
- D121 Connection 19 (in engine compartment wiring harness)
- D180 Connection 87a (in engine compartment wiring harness)
- * Only for vehicles with Start/Stop system
- *2 Refer to applicable wiring diagram for fuse positions
- *3 Refer to applicable wiring diagram for automatic transmission
- *4 Refer to applicable high-voltage system wiring diagram

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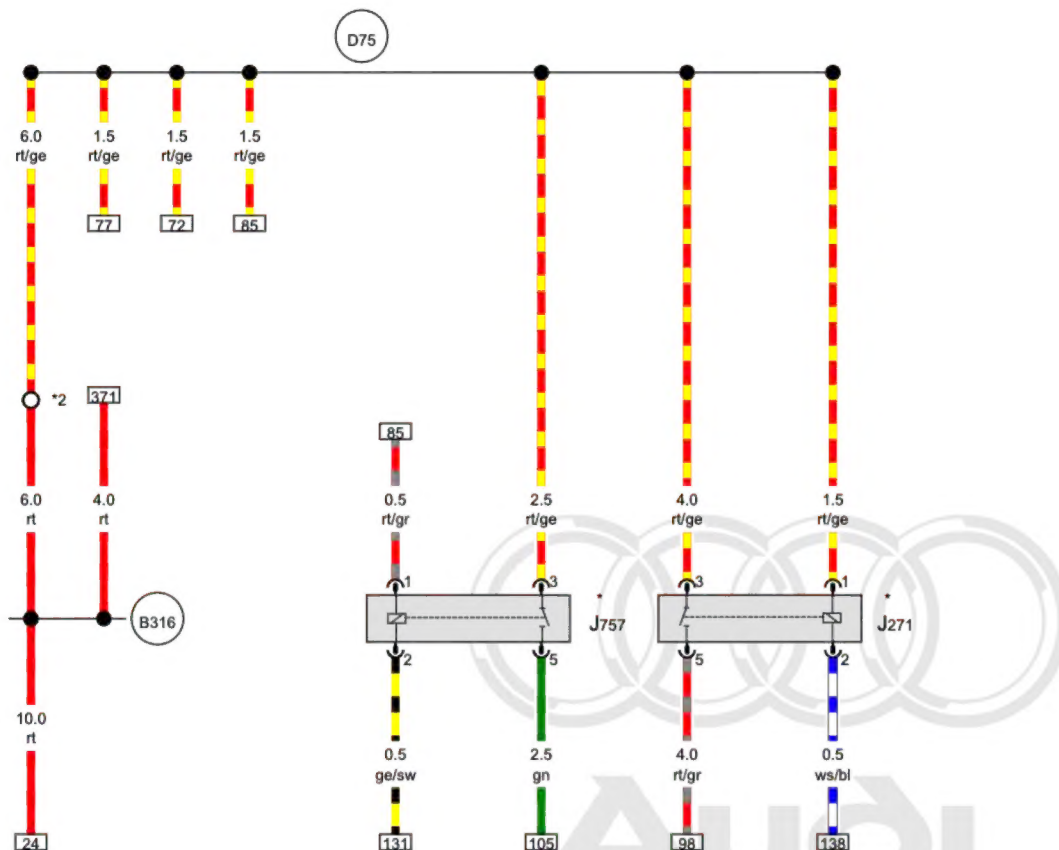
Fuse panel A, Connection 2 (87a) (in engine compartment wiring harness)

- SA Fuse panel A
- SA14 Fuse 14 (on fuse panel A)
- SA17 Fuse 17 (on fuse panel A)
- V468 Low temperature circuit coolant pump
- D181 Connection 2 (87a) (in engine compartment wiring harness)
- * Refer to applicable high-voltage system wiring diagram



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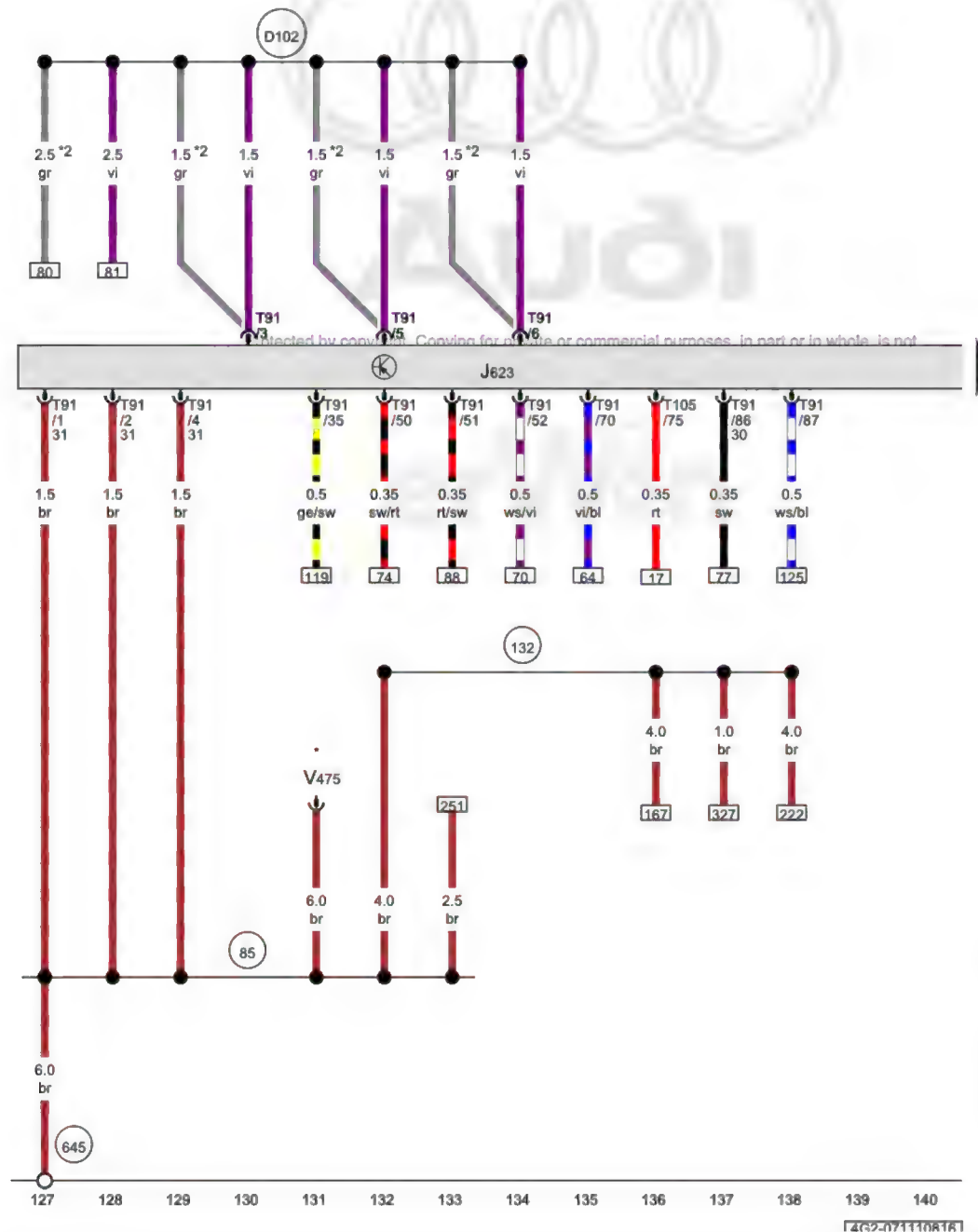


Motronic engine control module power supply relay, Engine component power supply relay

- J271 Motronic engine control module power supply relay
- J757 Engine component power supply relay
- B316 Positive connection 2 (30a) (in main wiring harness)
- D75 Positive connection 2 (30) (in engine compartment wiring harness)
- * Relay and fuse panel in the plenum chamber E-box
- *2 Threaded connection in the plenum chamber E-box

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Engine control module

J623 Engine control module
T91 91-pin connector
T105 105-pin connector
V475 Transmission fluid auxiliary hydraulic pump 1

- 85 Ground connection 1 (in engine compartment wiring harness)
- 132 Ground connection 3 (in engine compartment wiring harness)
- 645 Ground connection 1 on bulkhead
- D102 Connection 2 (in engine compartment wiring harness)
- * Refer to applicable wiring diagram for automatic transmission from August 2013
- *2

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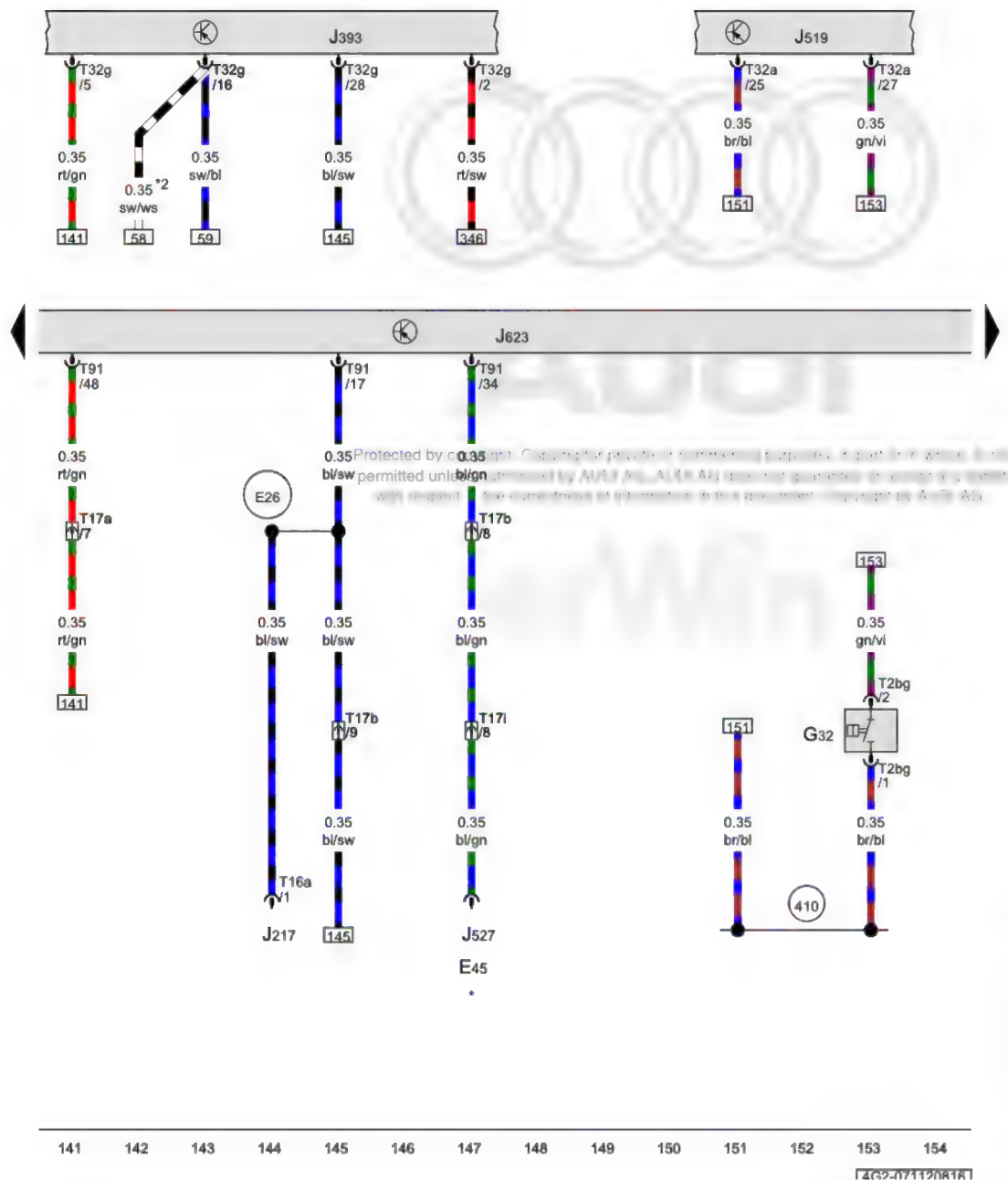
Engine coolant level sensor, Vehicle electrical system control module, Engine control module

- E45 Cruise control switch
- G32 Engine coolant level sensor
- J217 Transmission control module
- J393 Comfort system central control module
- J519 Vehicle electrical system control module
- J527 Steering column electronics control module
- J623 Engine control module
- T2bg 2-pin connector
- T16a 16-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- T17b 17-pin connector, Left plenum chamber E-box connector station
- T17i 17-pin connector, in the left A-pillar connector station
- T32a 32-pin connector
- T32g 32-pin connector
- T91 91-pin connector

410 Sensor ground connection 1 (in main wiring harness)

E26 Selector lever P/N position connection (in Motronic multifunction fuel injection wiring harness)

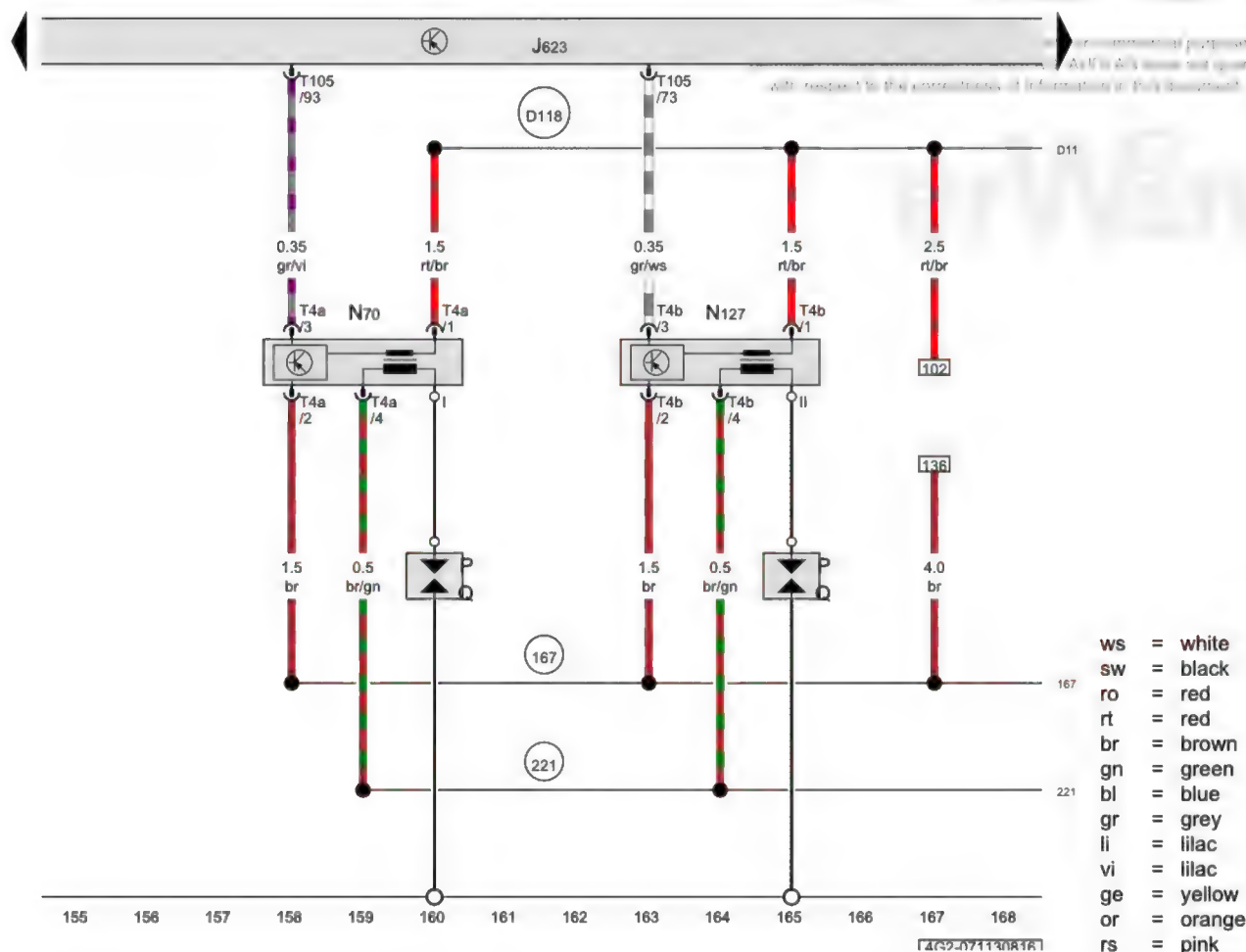
- * Only for vehicles with cruise control
- *2 Only for right-hand drive vehicles



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Engine control module, Ignition coil 1 with power output stage, Spark plug connectors, Spark plugs

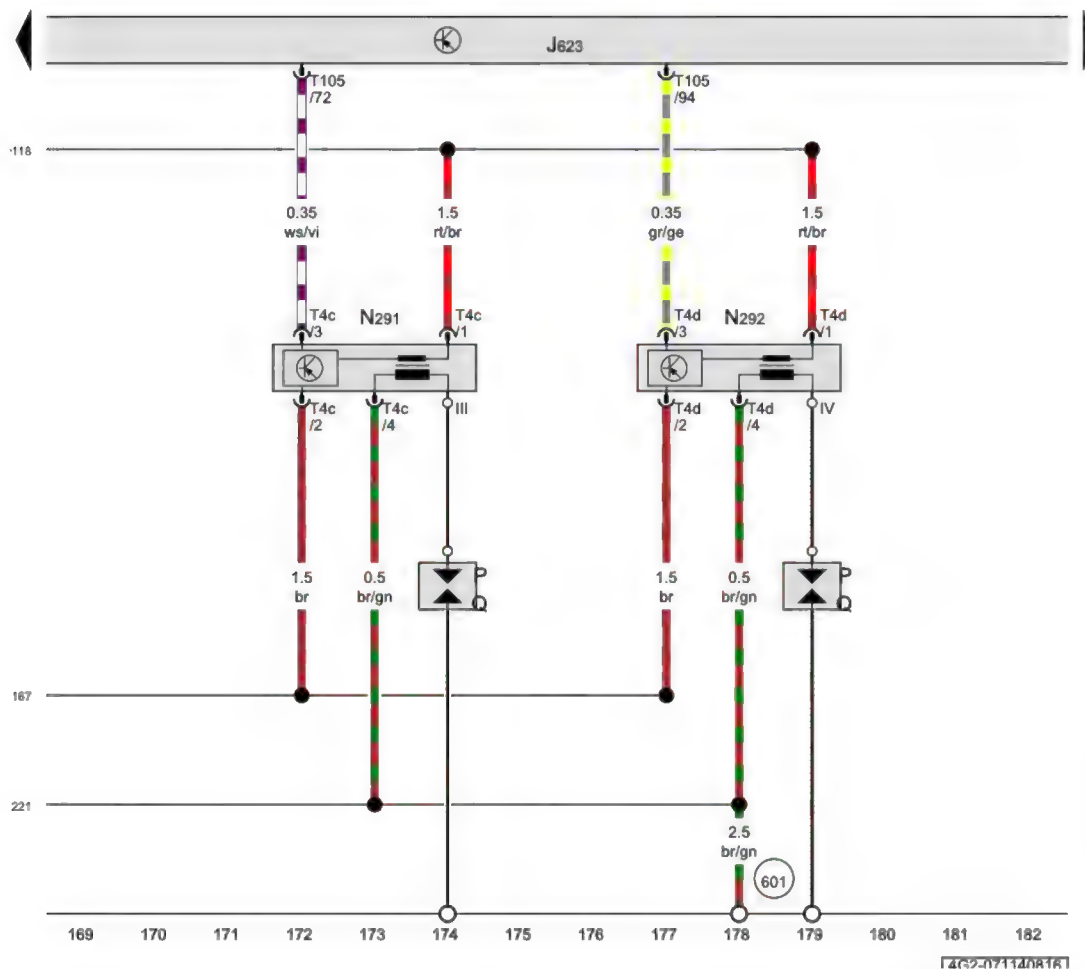
- J623 Engine control module
- N70 Ignition coil 1 with power output stage
- N127 Ignition coil 2 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T4a 4-pin connector
- T4b 4-pin connector
- T105 105-pin connector
- 167 Ground connection 4 (in engine compartment wiring harness)
- 221 Engine ground connection (in engine wiring harness)
- D118 Connection 16 (in engine compartment wiring harness)



Engine control module, Ignition coil 4 with power output stage, Spark plug connectors, Spark plugs

- J623 Engine control module
- N291 Ignition coil 3 with power output stage
- N292 Ignition coil 4 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T4c 4-pin connector
- T4d 4-pin connector
- T105 105-pin connector

- 167 Ground connection 4 (in engine compartment wiring harness)
- 221 Engine ground connection (in engine wiring harness)
- 601 Ground connection on cylinder head, left
- D118 Connection 16 (in engine compartment wiring harness)



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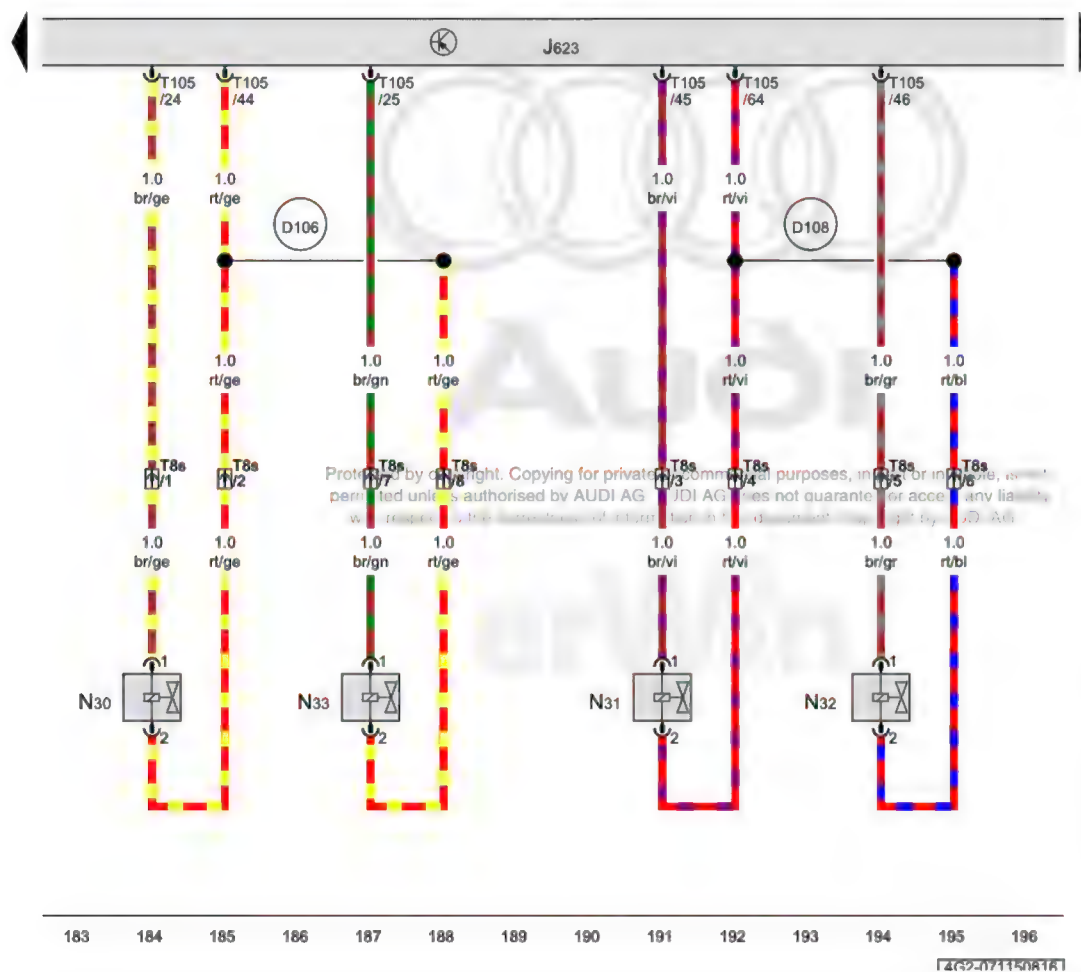
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Engine control module, Cylinder 1 fuel injector, Cylinder 4 fuel injector

- J623 Engine control module
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- T8s 8-pin connector, in the engine compartment, left
- T105 105-pin connector

D106 Connection 4 (in engine compartment wiring harness)

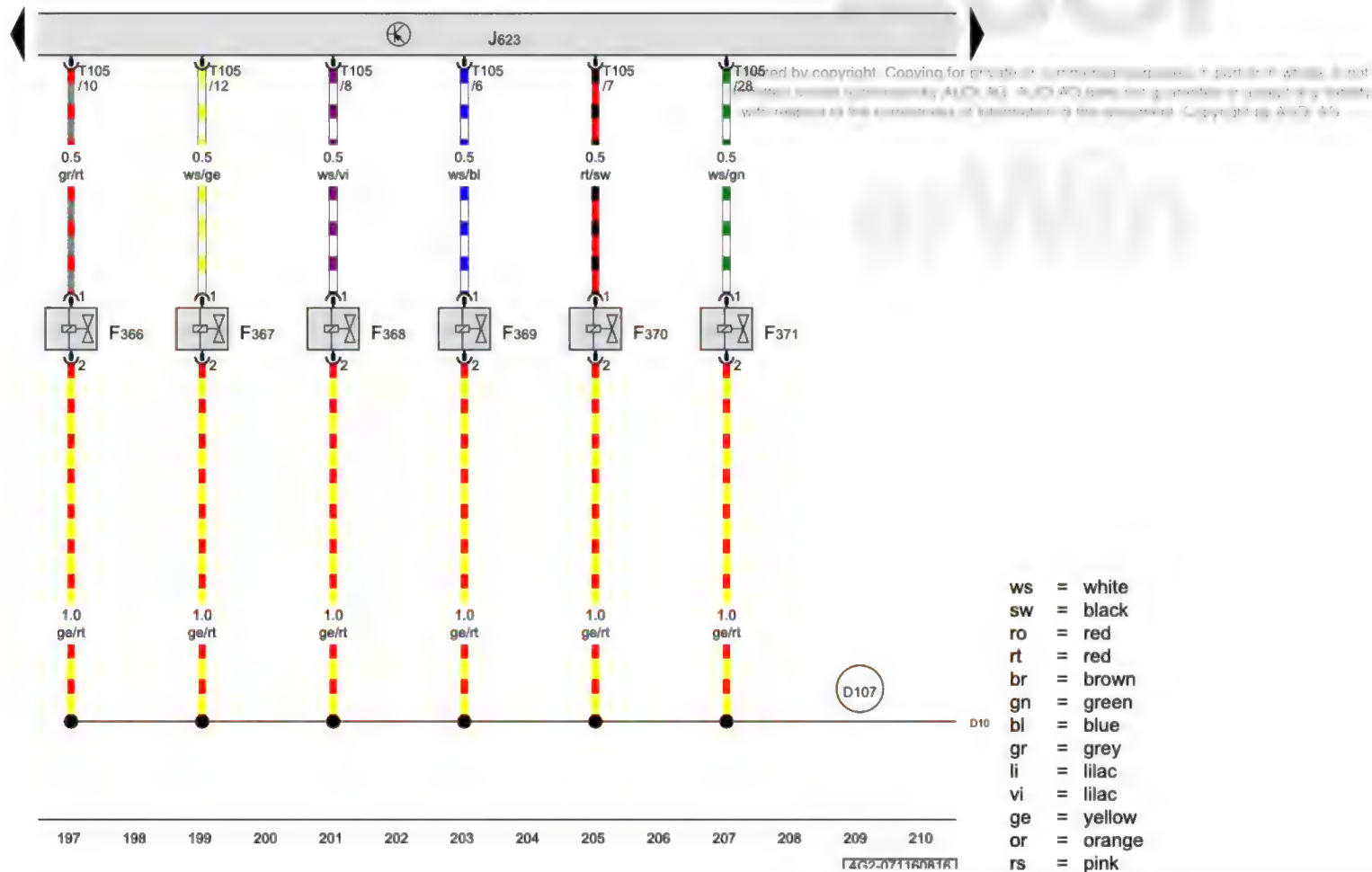
D108 Connection 6 (in engine compartment wiring harness)

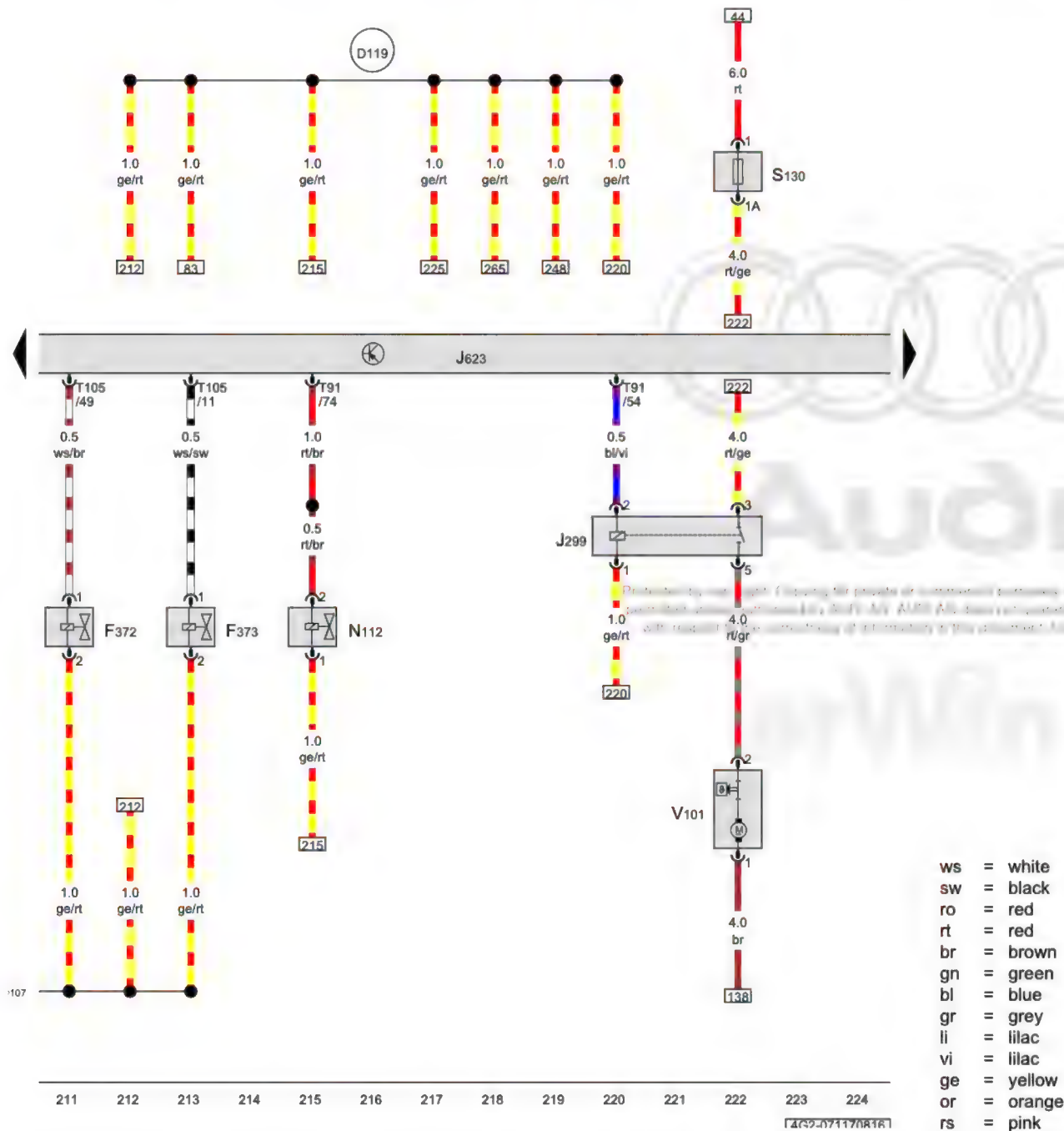


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Cam adjustment actuator 1, Engine control module

- F366 Cam adjustment actuator 1
- F367 Cam adjustment actuator 2
- F368 Cam adjustment actuator 3
- F369 Cam adjustment actuator 4
- F370 Cam adjustment actuator 5
- F371 Cam adjustment actuator 6
- J623 Engine control module
- T105 105-pin connector
- D107 Connection 5 (in engine compartment wiring harness)





Cam adjustment actuator 7, Secondary air injection pump relay, Engine control module, Secondary air injection solenoid valve, Secondary air injection pump fuse, Secondary air injection pump motor

- F372 Cam adjustment actuator 7
- F373 Cam adjustment actuator 8
- J299 Secondary air injection pump relay
- J623 Engine control module
- N112 Secondary air injection solenoid valve
- S130 Secondary air injection pump fuse
- T91 91-pin connector
- T105 105-pin connector
- V101 Secondary air injection pump motor

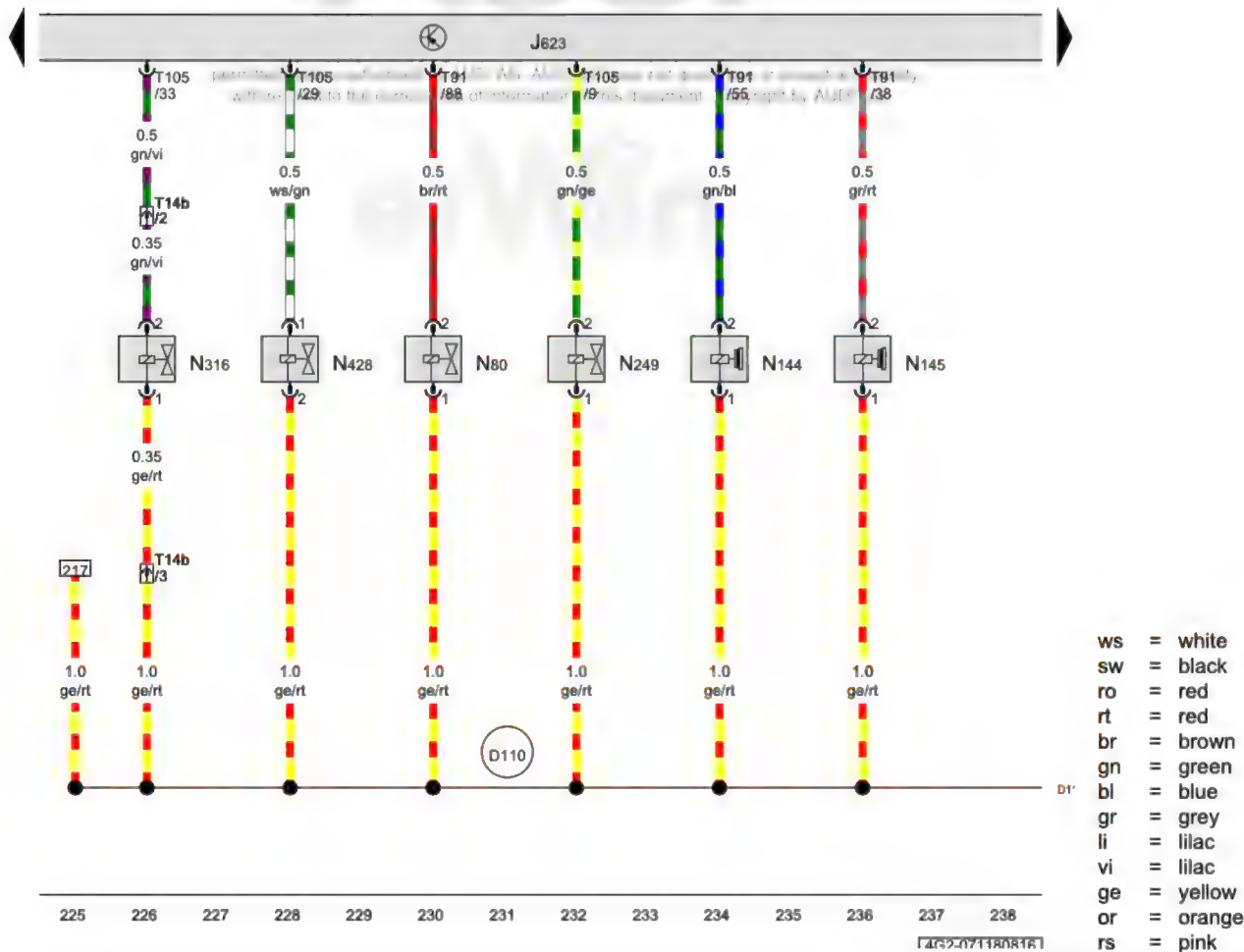
D107 Connection 5 (in engine compartment wiring harness)

D119 Connection 17 (in engine compartment wiring harness)

Engine control module, EVAP canister purge regulator valve 1, Turbocharger recirculation valve, Intake manifold runner control valve, Oil pressure regulation valve

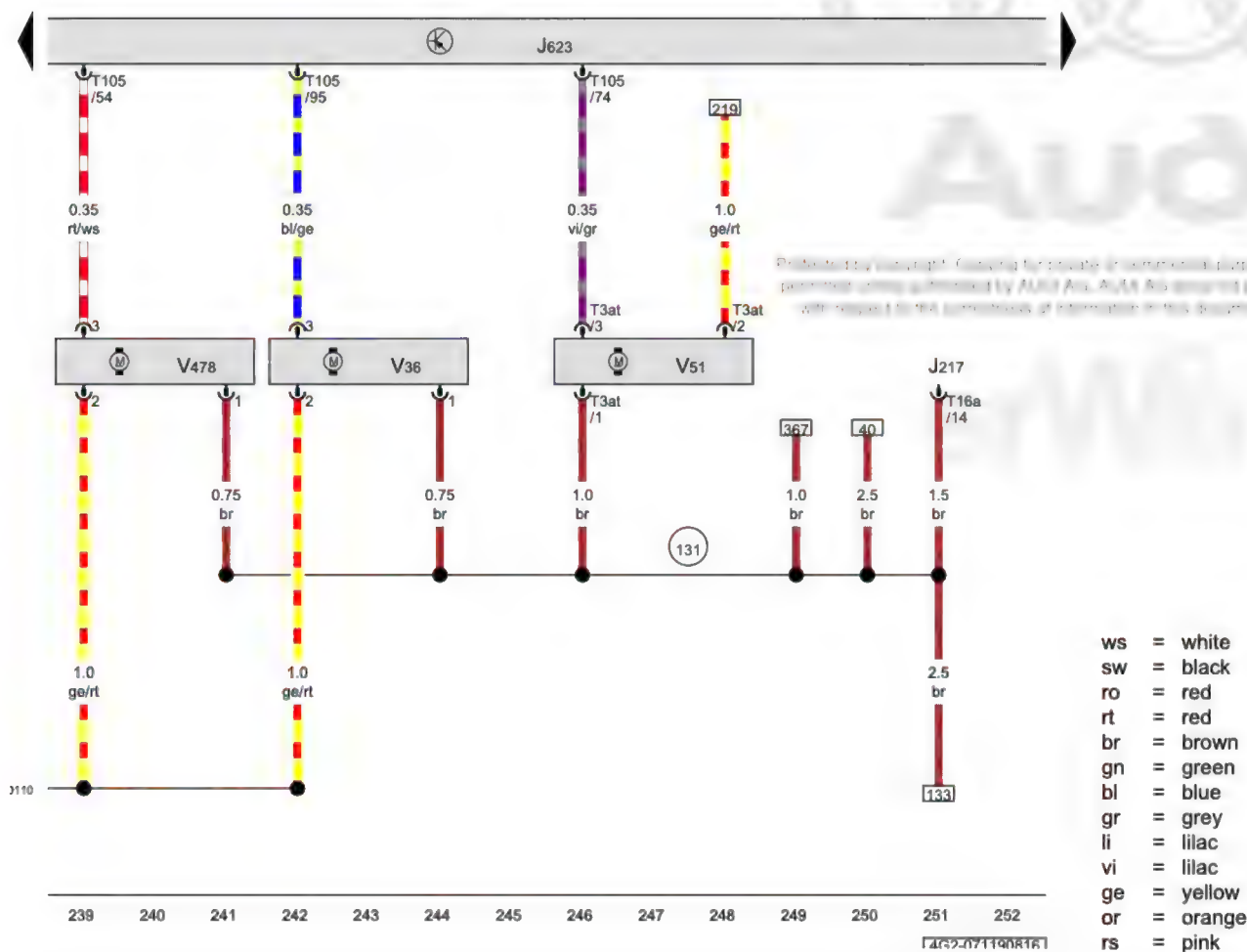
- J623 Engine control module
- N80 EVAP canister purge regulator valve 1
- N144 Left electrohydraulic engine mount solenoid valve
- N145 Right electrohydraulic engine mount solenoid valve
- N249 Turbocharger recirculation valve
- N316 Intake manifold runner control valve
- N428 Oil pressure regulation valve
- T14b 14-pin connector, in the engine compartment, left
- T91 91-pin connector
- T105 105-pin connector

D110 Connection 8 (in engine compartment wiring harness)



Engine control module, Water pump, After-run coolant pump, Transmission fluid cooling pump

- J217 Transmission control module
- J623 Engine control module
- T3at 3-pin connector
- T16a 16-pin connector
- T105 105-pin connector
- V36 Water pump
- V51 After-run coolant pump
- V478 Transmission fluid cooling pump
- 131 Ground connection 2 (in engine compartment wiring harness)
- D110 Connection 8 (in engine compartment wiring harness)

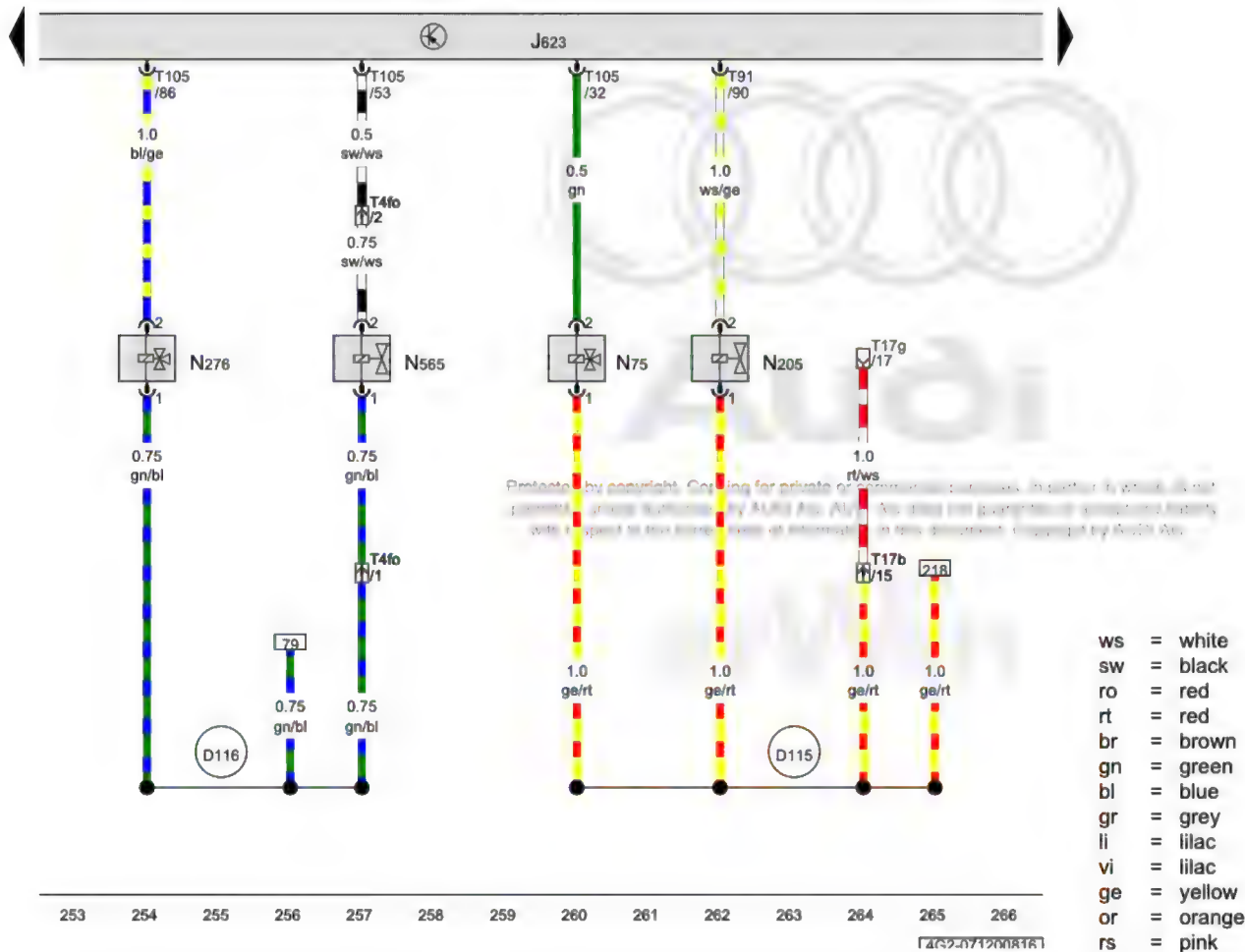


Engine control module, Wastegate bypass regulator valve,
Fuel pressure regulator valve, Electric drive coolant valve

- J623 Engine control module
- N75 Wastegate bypass regulator valve
- N205 Camshaft adjustment valve 1
- N276 Fuel pressure regulator valve
- N565 Electric drive coolant valve
- T4fo 4-pin connector, in the engine compartment, left
- T17b 17-pin connector, Left plenum chamber E-box connector station
- T17g 17-pin connector, in the left A-pillar connector station
- T91 91-pin connector
- T105 105-pin connector

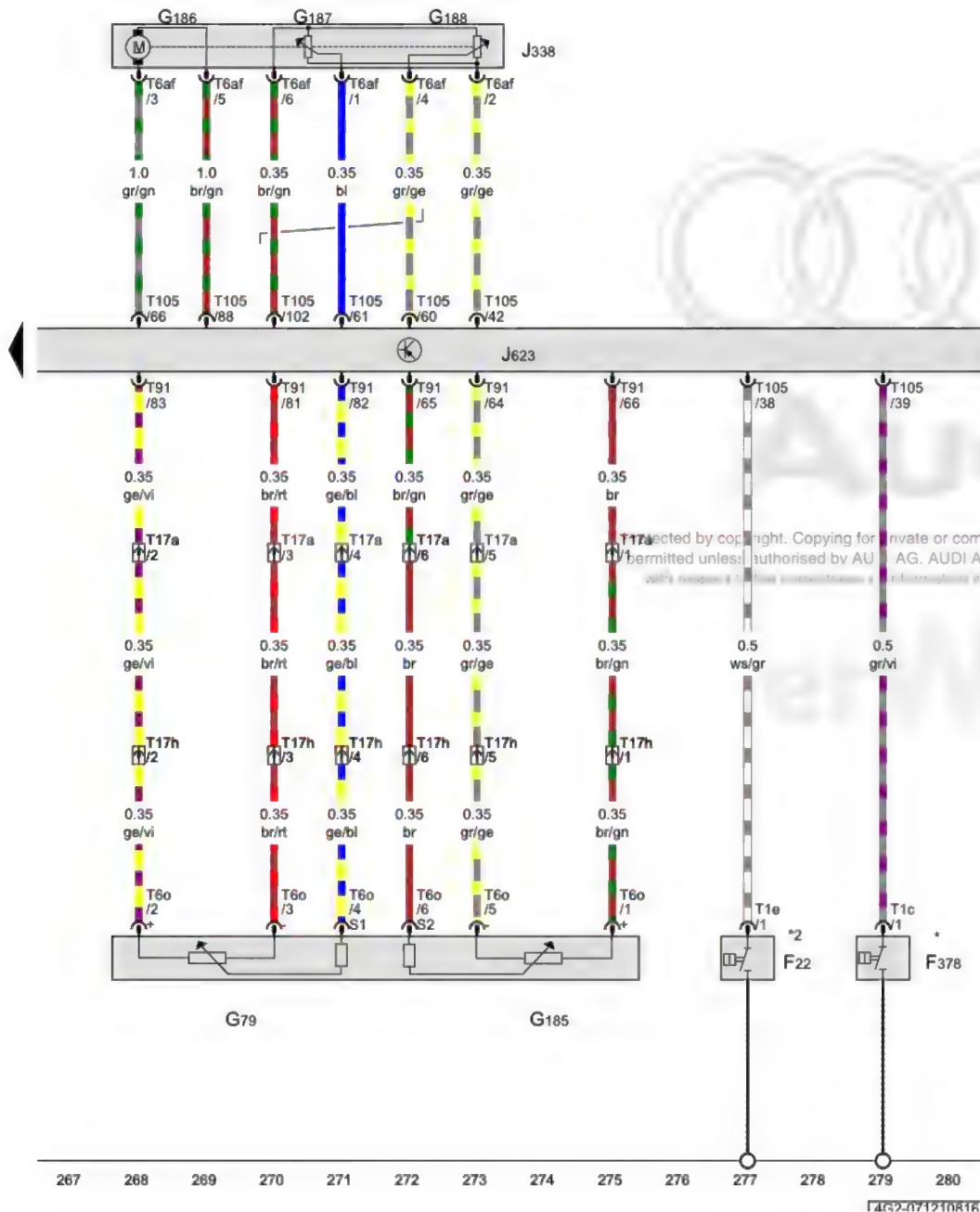
D115 Connection 13 (in engine compartment wiring harness)

D116 Connection 14 (in engine compartment wiring harness)



Oil pressure switch, Reduced oil pressure switch, Accelerator pedal position sensor, Throttle valve control module, Engine control module

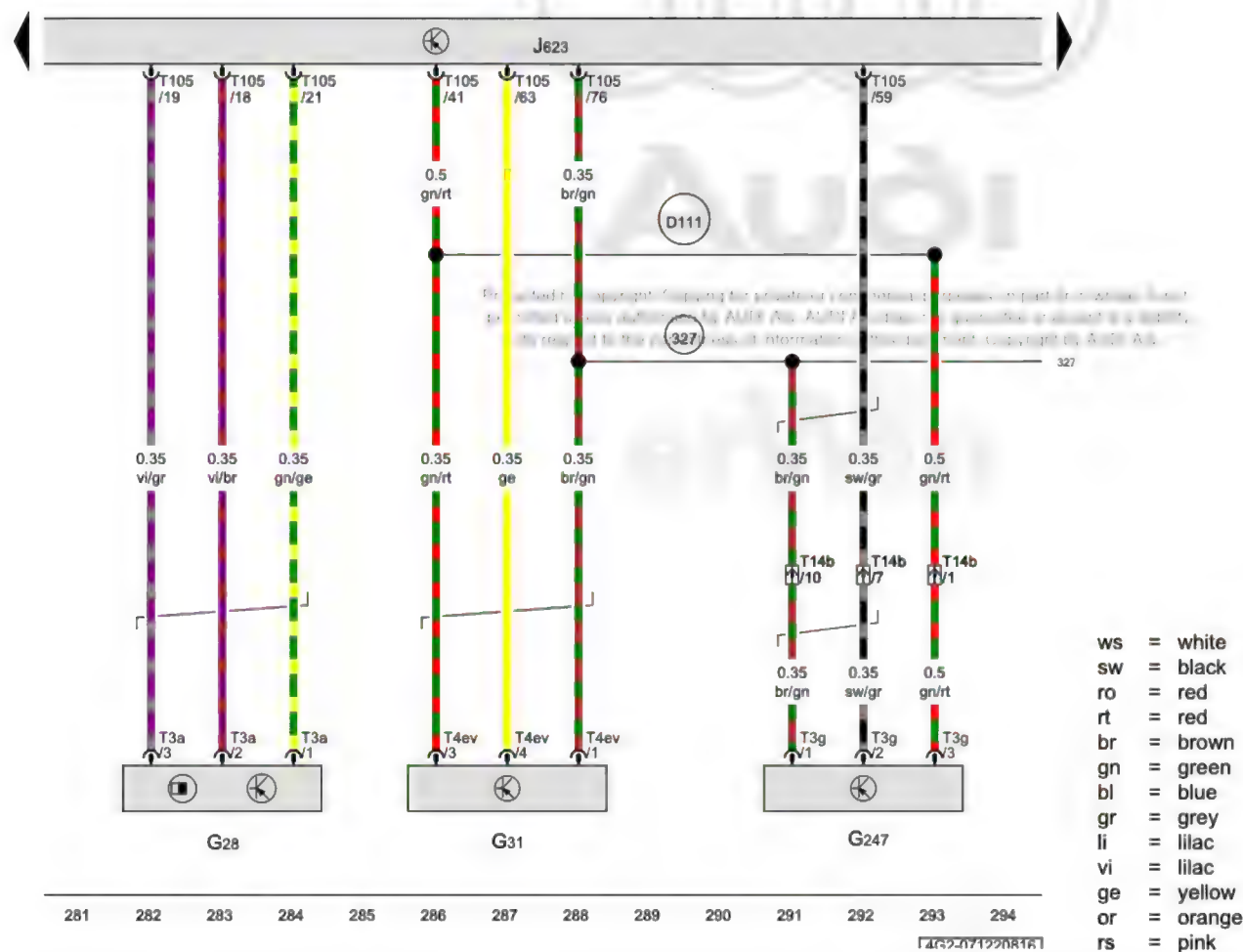
- F22 Oil pressure switch
- F378 Reduced oil pressure switch
- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module
- T1c 1-pin connector
- T1e 1-pin connector
- T6af 6-pin connector
- T6o 6-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- T17h 17-pin connector, in the left A-pillar connector station
- T91 91-pin connector
- T105 105-pin connector
- * 0.9 bar
- *2 2.6 bar



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Engine speed sensor, Charge air pressure sensor, Fuel pressure sensor, Engine control module

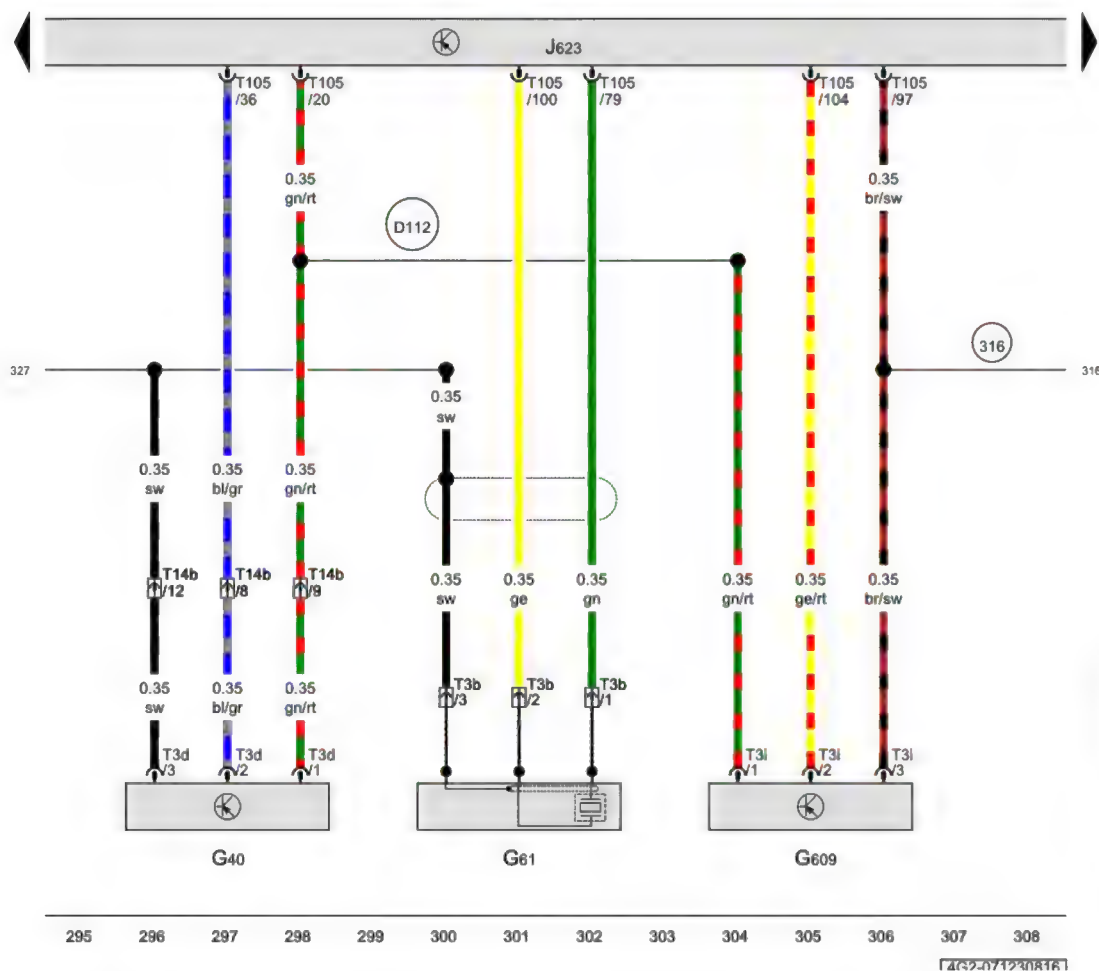
- G28 Engine speed sensor
- G31 Charge air pressure sensor
- G247 Fuel pressure sensor
- J623 Engine control module
- T3a 3-pin connector
- T3g 3-pin connector
- T4ev 4-pin connector
- T14b 14-pin connector, in the engine compartment, left
- T105 105-pin connector
- 327 Sensor ground connection (in engine compartment wiring harness)
- D111 Connection 9 (in engine compartment wiring harness)



Camshaft position sensor, Knock sensor 1, Secondary air injection sensor 1, Engine control module

- G40 Camshaft position sensor
- G61 Knock sensor 1
- G609 Secondary air injection sensor 1
- J623 Engine control module
- T3b 3-pin connector, green
- T3d 3-pin connector
- T3i 3-pin connector
- T14b 14-pin connector, in the engine compartment, left
- T105 105-pin connector

- 316 Sensor ground connection 2 (in engine wiring harness)
- 327 Sensor ground connection (in engine compartment wiring harness)
- D112 Connection 10 (in engine compartment wiring harness)

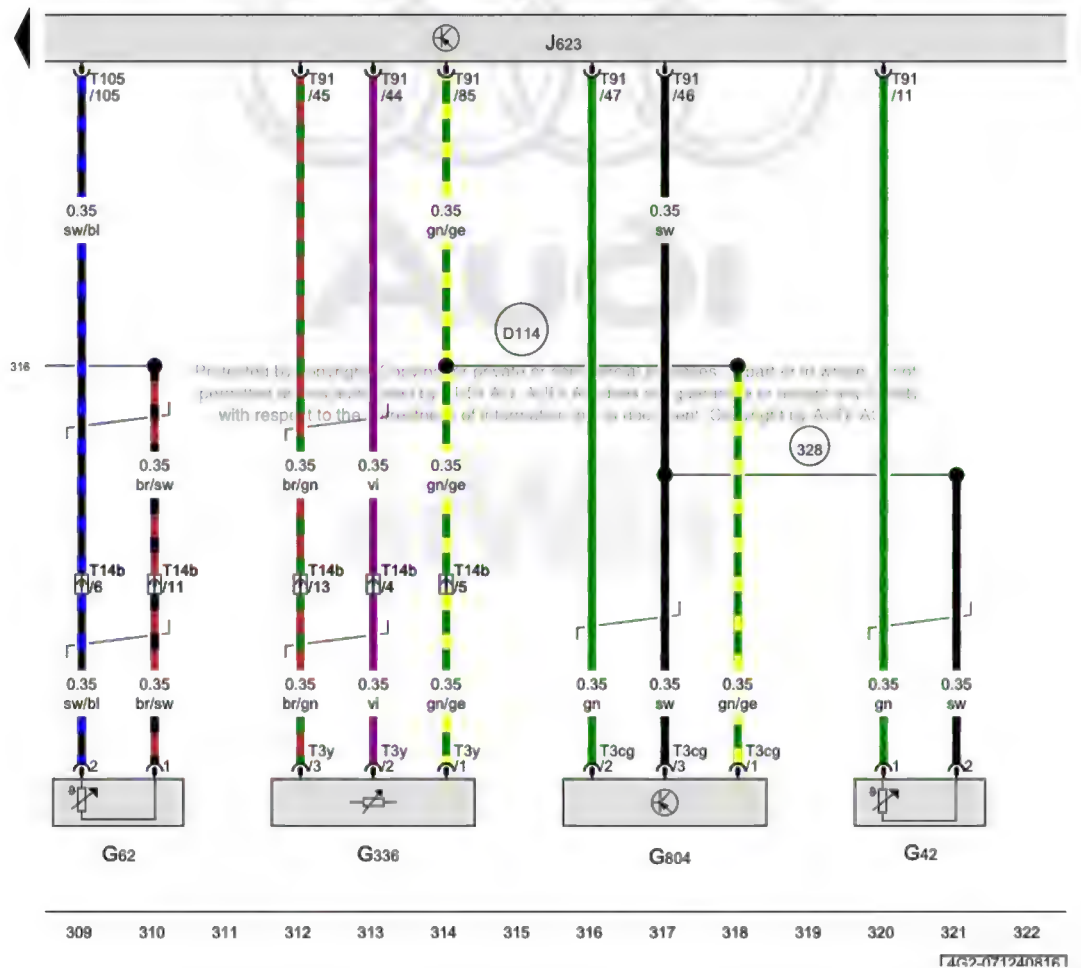


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Intake air temperature sensor, Engine coolant temperature sensor, Intake manifold runner position sensor, EVAP canister system pressure sensor, Engine control module

- G42 Intake air temperature sensor
- G62 Engine coolant temperature sensor
- G336 Intake manifold runner position sensor
- G804 EVAP canister system pressure sensor
- J623 Engine control module
- T3cg 3-pin connector
- T3y 3-pin connector
- T14b 14-pin connector, in the engine compartment, left
- T91 91-pin connector
- T105 105-pin connector

- 316 Sensor ground connection 2 (in engine wiring harness)
- 328 Sensor ground connection 2 (in engine compartment wiring harness)
- D114 Connection 12 (in engine compartment wiring harness)



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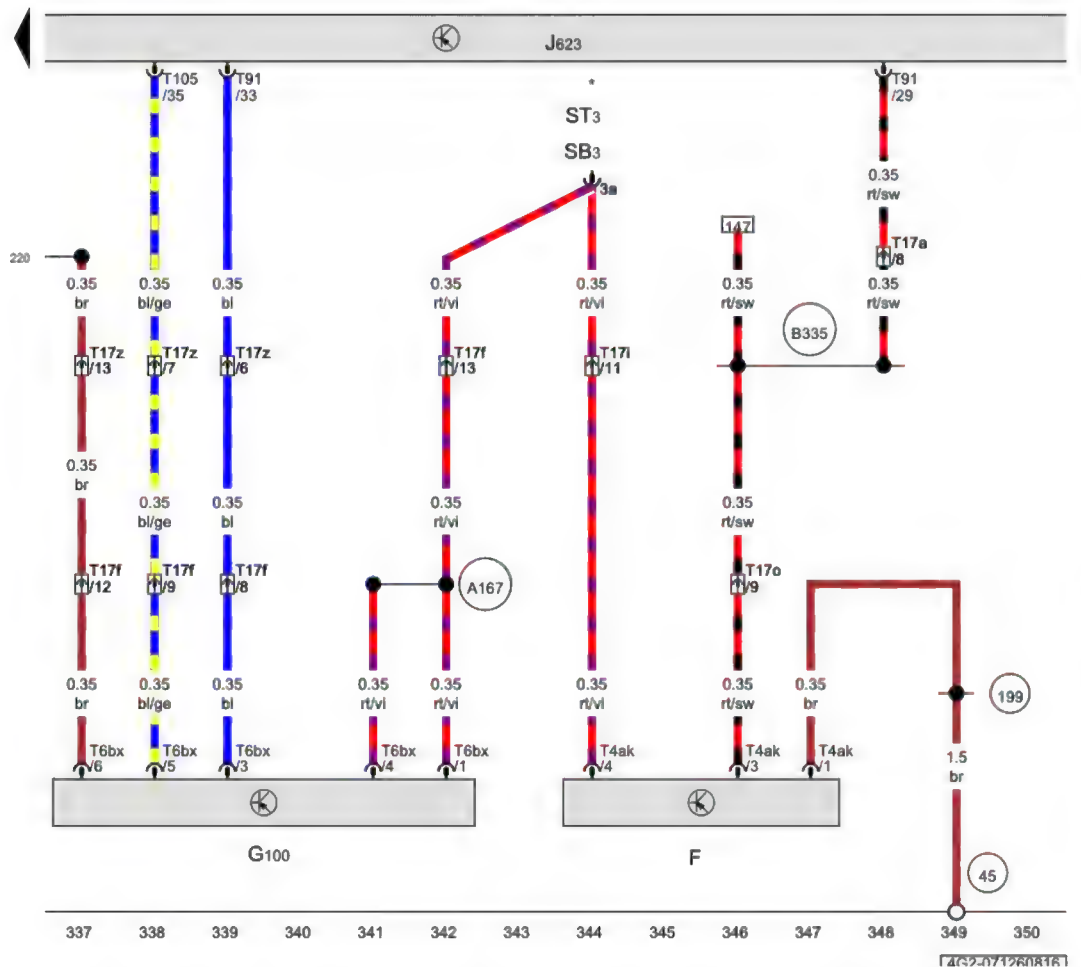
G70	Mass airflow sensor
G266	Oil level thermal sensor
J623	Engine control module
T3m	3-pin connector
T5p	5-pin connector
T91	91-pin connector
T105	105-pin connector

220 Sensor ground connection (in engine wiring harness)



Brake lamp switch, Brake pedal position sensor, Engine control module

- F Brake lamp switch
- G100 Brake pedal position sensor
- J623 Engine control module
- SB3 Fuse 3 (on fuse panel B)
- ST3 Fuse panel 3
- T4ak 4-pin connector
- T6bx 6-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- T17f 17-pin connector, in the left A-pillar connector station
- T17i 17-pin connector, in the left A-pillar connector station
- T17o 17-pin connector, in the connector station, right A-pillar
- T17z 17-pin connector, Left plenum chamber E-box connector station
- T91 91-pin connector
- T105 105-pin connector



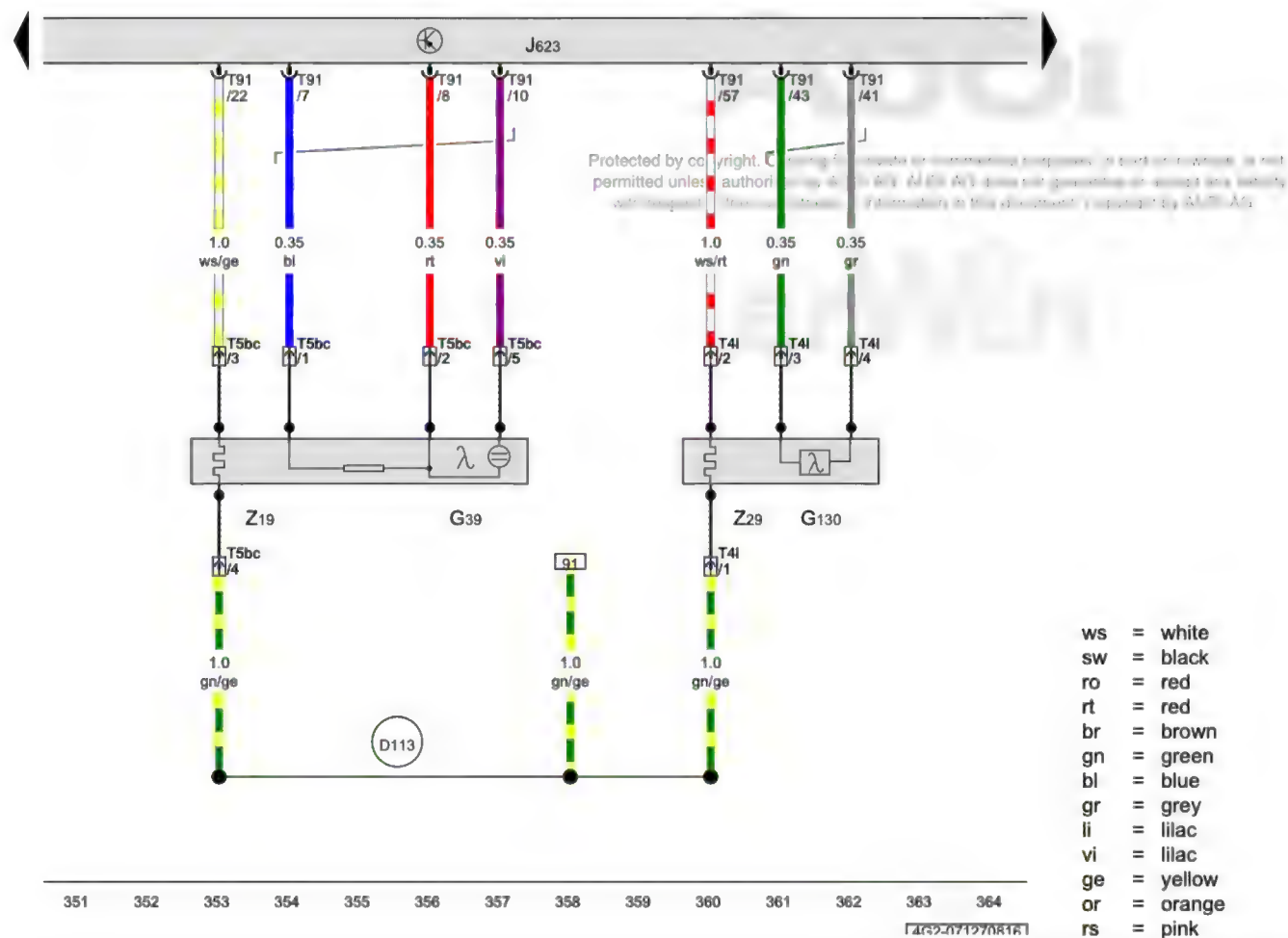
- 45 Ground connection behind instrument panel, center
- 199 Ground connection 3 (in instrument panel wiring harness)
- 220 Sensor ground connection (in engine wiring harness)
- A167 Positive connection 3 (30a) (in instrument panel wiring harness)
- B335 Connection 54 (in main wiring harness) 1
- * Refer to applicable wiring diagram for fuse positions

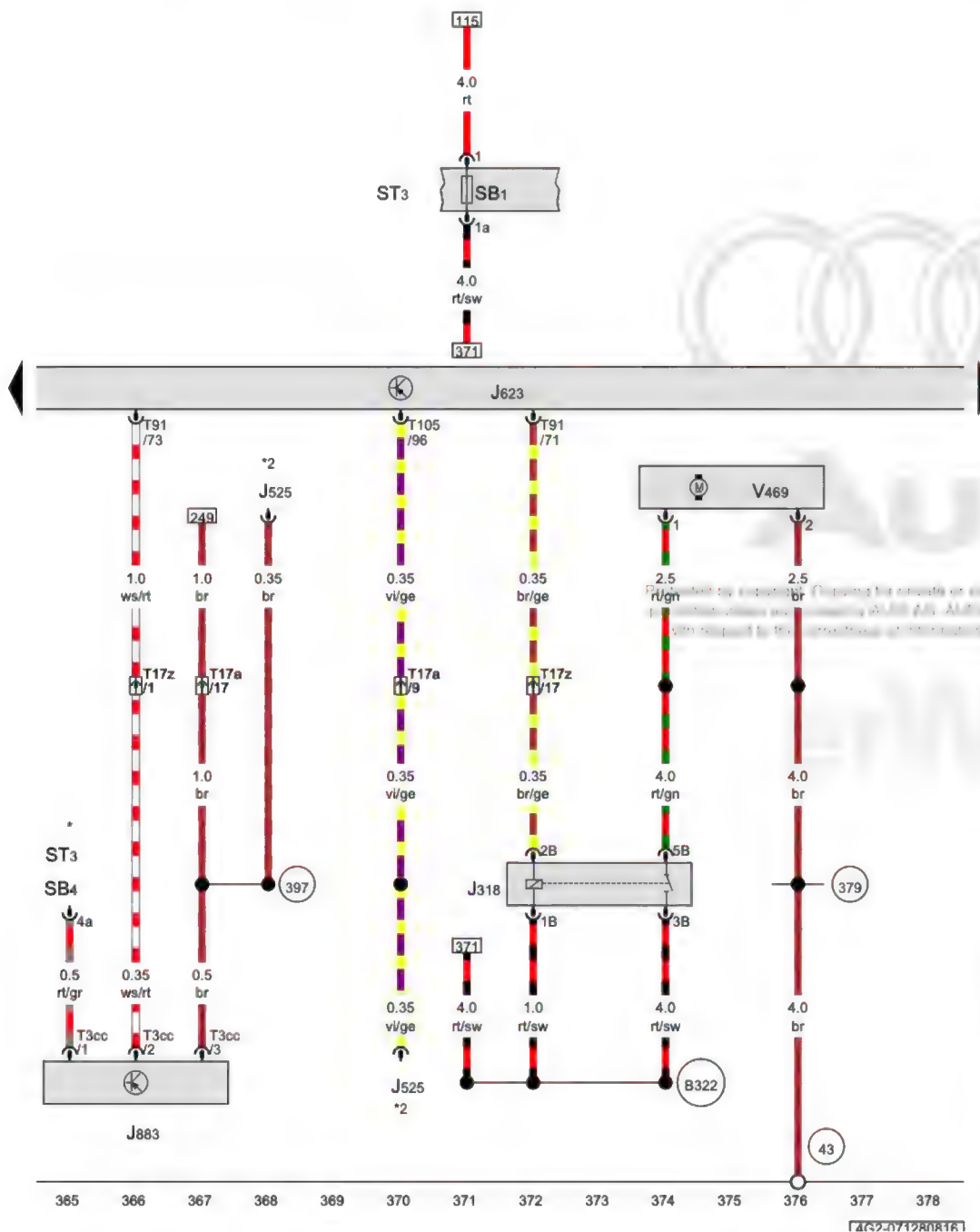
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Heated oxygen sensor, Oxygen sensor after catalytic converter, Engine control module

- G39 Heated oxygen sensor
- G130 Oxygen sensor after catalytic converter
- J623 Engine control module
- T4l 4-pin connector, black
- T5bc 5-pin connector, black
- T91 91-pin connector
- Z19 Oxygen sensor heater
- Z29 Heater for oxygen sensor 1 after catalytic converter
- D113 Connection 11 (in engine compartment wiring harness)





Vacuum pump relay, Engine control module, Exhaust door control unit, Brake booster vacuum pump

- J318 Vacuum pump relay
- J525 Digital sound system control module
- J623 Engine control module
- J883 Exhaust door control unit
- SB1 Fuse 1 (on fuse panel B)
- ST3 Fuse panel 3
- SB4 Fuse 4 (on fuse panel B)
- T3cc 3-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- T17z 17-pin connector, Left plenum chamber E-box connector station
- T91 91-pin connector
- T105 105-pin connector
- V469 Brake booster vacuum pump

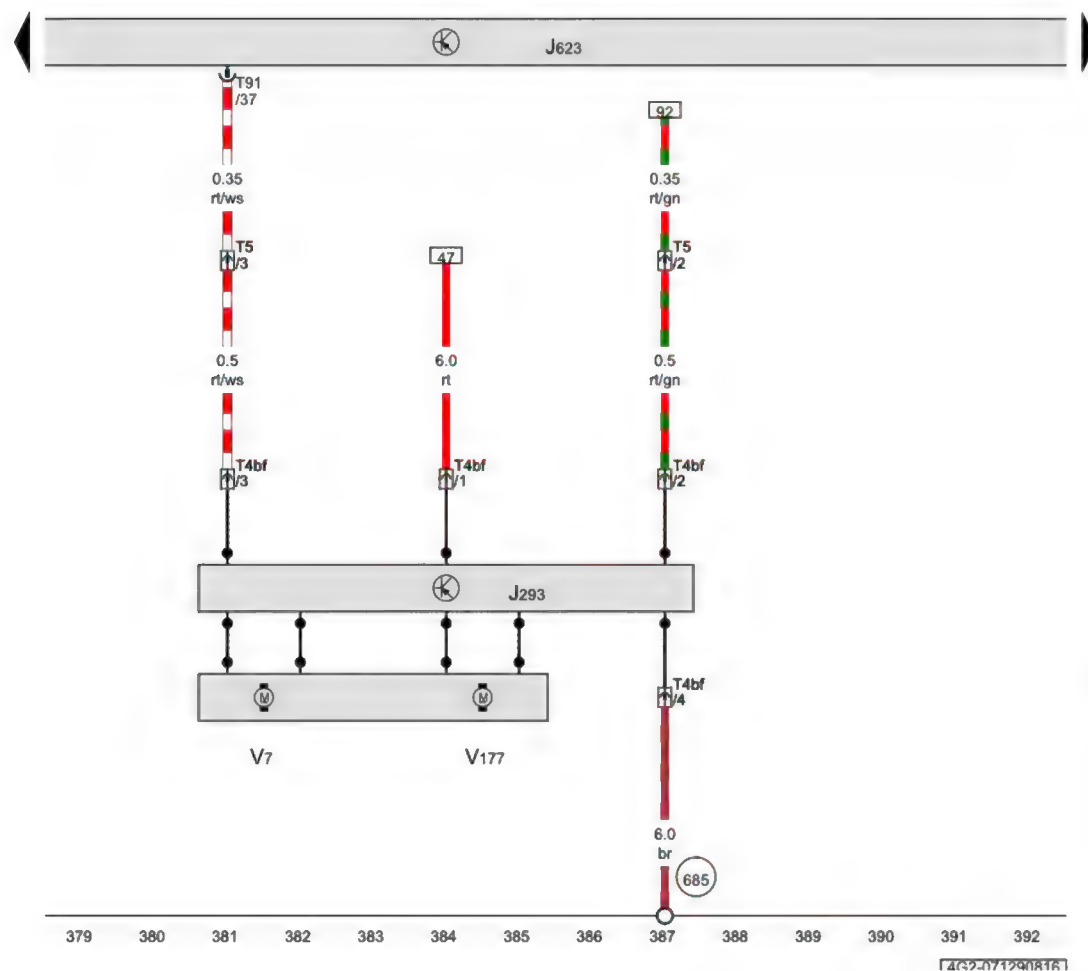
- 43 Ground connection on A-pillar, lower right
- 379 Ground connection 14 (in main wiring harness)
- 397 Ground connection 32 (in main wiring harness)
- B322 Positive connection 8 (30a) (in main wiring harness)
- *2 Refer to applicable wiring diagram for fuse positions
- *2 Refer to applicable sound system wiring diagram

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

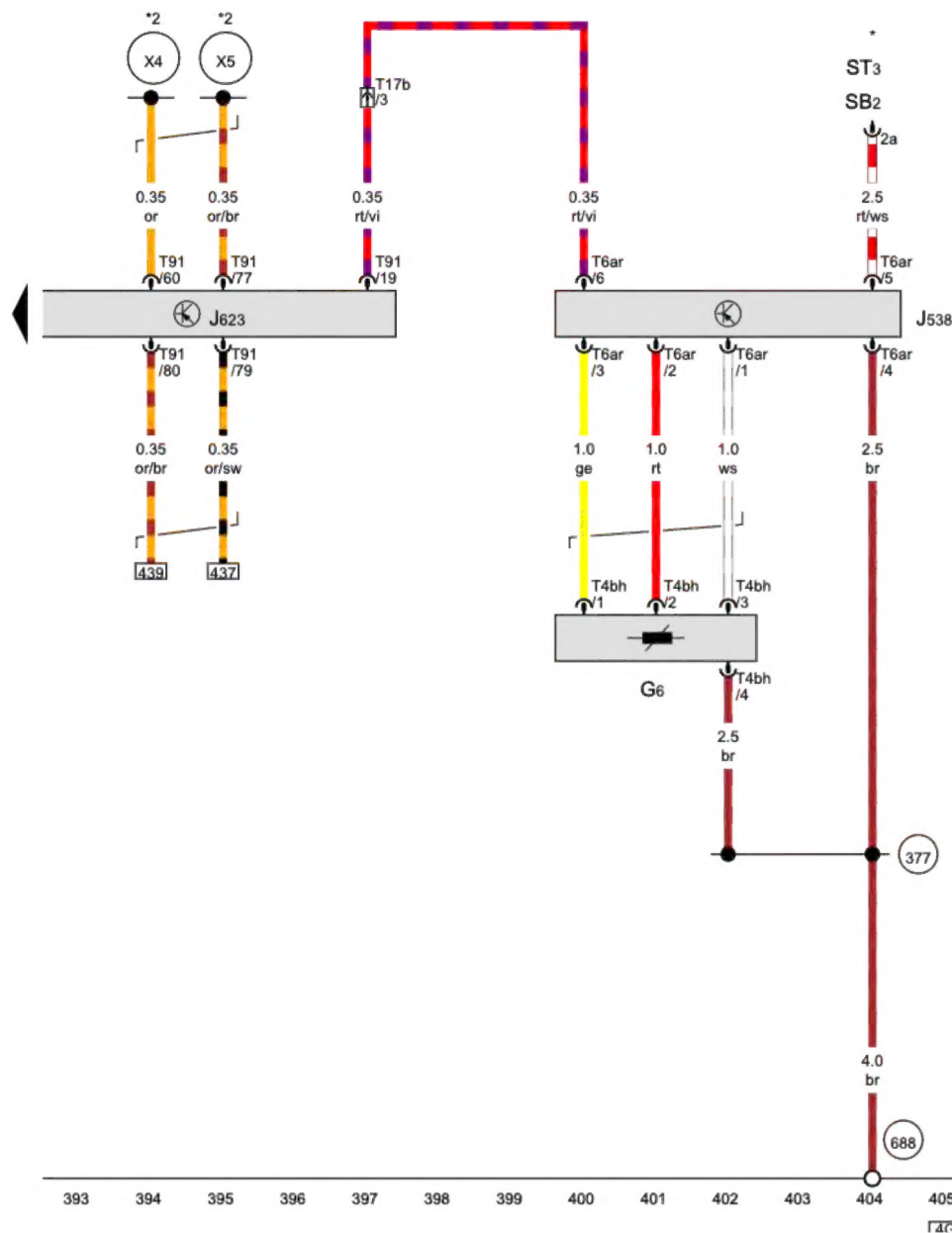
Radiator fan control module, Engine control module,
Radiator fan, Radiator fan 2

- J293 Radiator fan control module
- J623 Engine control module
- T4bf 4-pin connector
- T5 5-pin connector, in the center plenum chamber
- T91 91-pin connector
- V7 Radiator fan
- V177 Radiator fan 2

685 Ground connection 1 on right front longitudinal member



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Transfer fuel pump, Fuel pump control module, Engine control module

- G6 Transfer fuel pump
- J538 Fuel pump control module
- J623 Engine control module
- SB2 Fuse 2 (on fuse panel B)
- ST3 Fuse panel 3
- T4bh 4-pin connector
- T6ar 6-pin connector
- T17b 17-pin connector
- T91 91-pin connector

377 Ground connection 12 (in main wiring harness)

688 Ground connection 2 on center tunnel

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X4 CAN bus Hybrid high connection 1 (in engine compartment wiring harness)

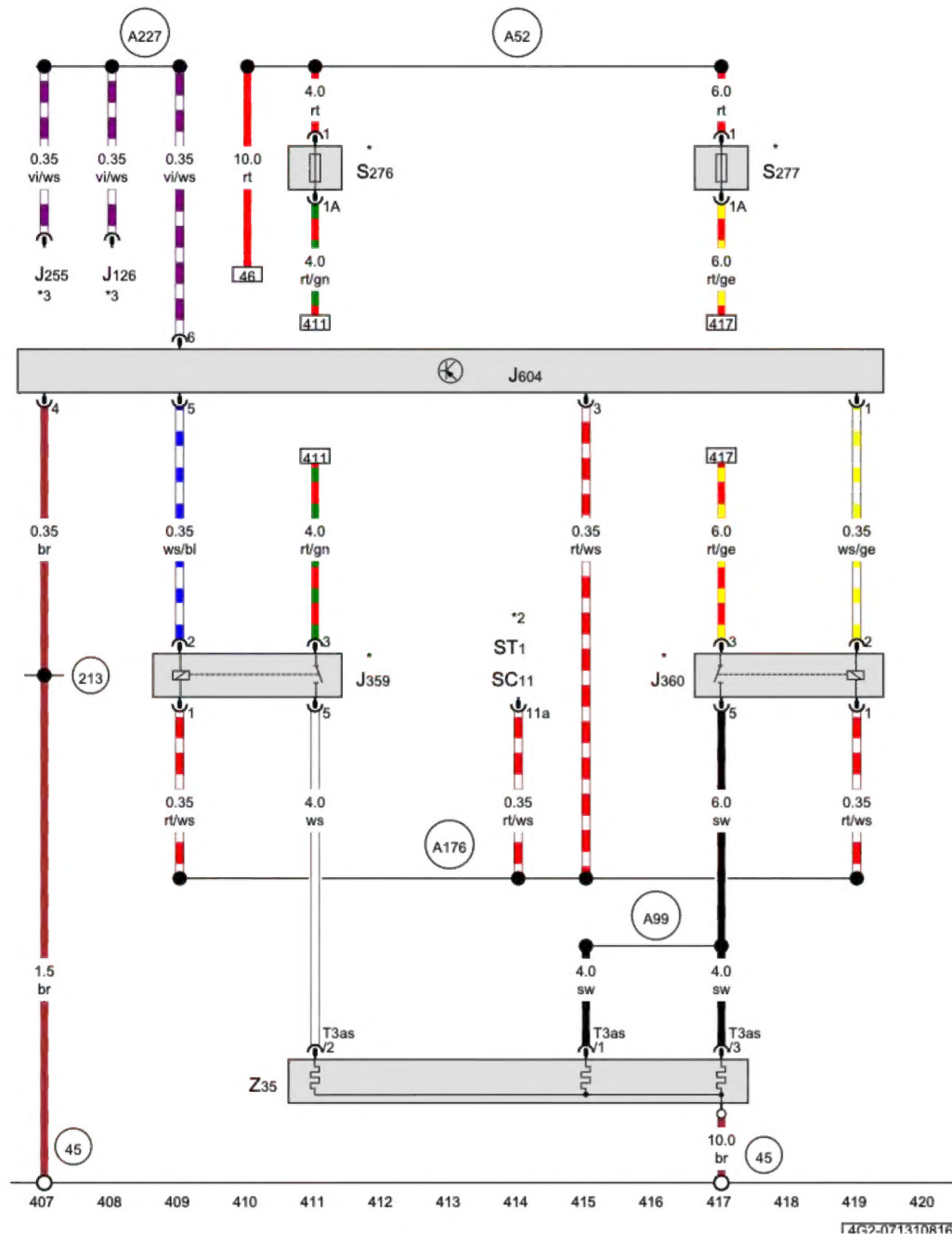
X5 CAN bus Hybrid low connection 1 (in engine compartment wiring harness)

* Refer to applicable wiring diagram for fuse positions

*2 Refer to applicable high-voltage system wiring diagram

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
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Low heat output relay, High heat output relay, Auxiliary heater control module, Auxiliary heater heating element



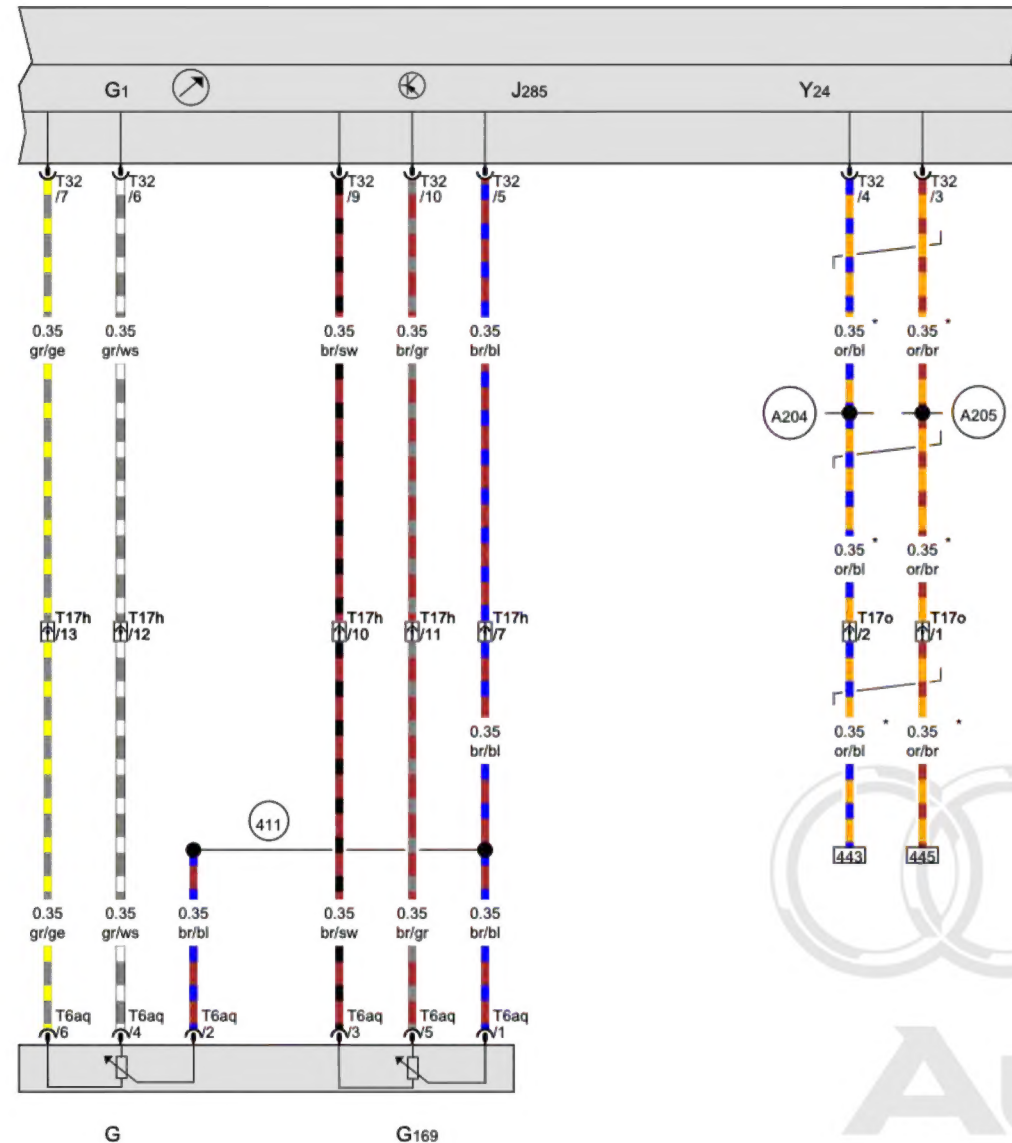
- J126 Fresh air blower control module
- J255 Climatronic control module
- J359 Low heat output relay
- J360 High heat output relay
- J604 Auxiliary heater control module
- ST1 Fuse panel 1
- SC11 Fuse 11 (on fuse panel C)
- S276 Heating element fuse 1
- S277 Heating element fuse 2
- T3as 3-pin connector
- Z35 Auxiliary heater heating element

- 45 Ground connection behind instrument panel, center
- 213 Ground connection (in instrument panel wiring harness)
- A52 Positive connection 2 (30) (in instrument panel wiring harness)
- A99 Connection 87 (in instrument panel wiring harness) 1
- A176 Auxiliary heater connection (in instrument panel wiring harness)
- A227 LIN bus connection 2 (in instrument panel wiring harness)

- * Relay panel under the instrument panel, left
- *2 Refer to applicable wiring diagram for fuse positions
- *3 Refer to applicable A/C system wiring diagram

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Fuel gauge, Fuel level sensor 2, Instrument cluster control module

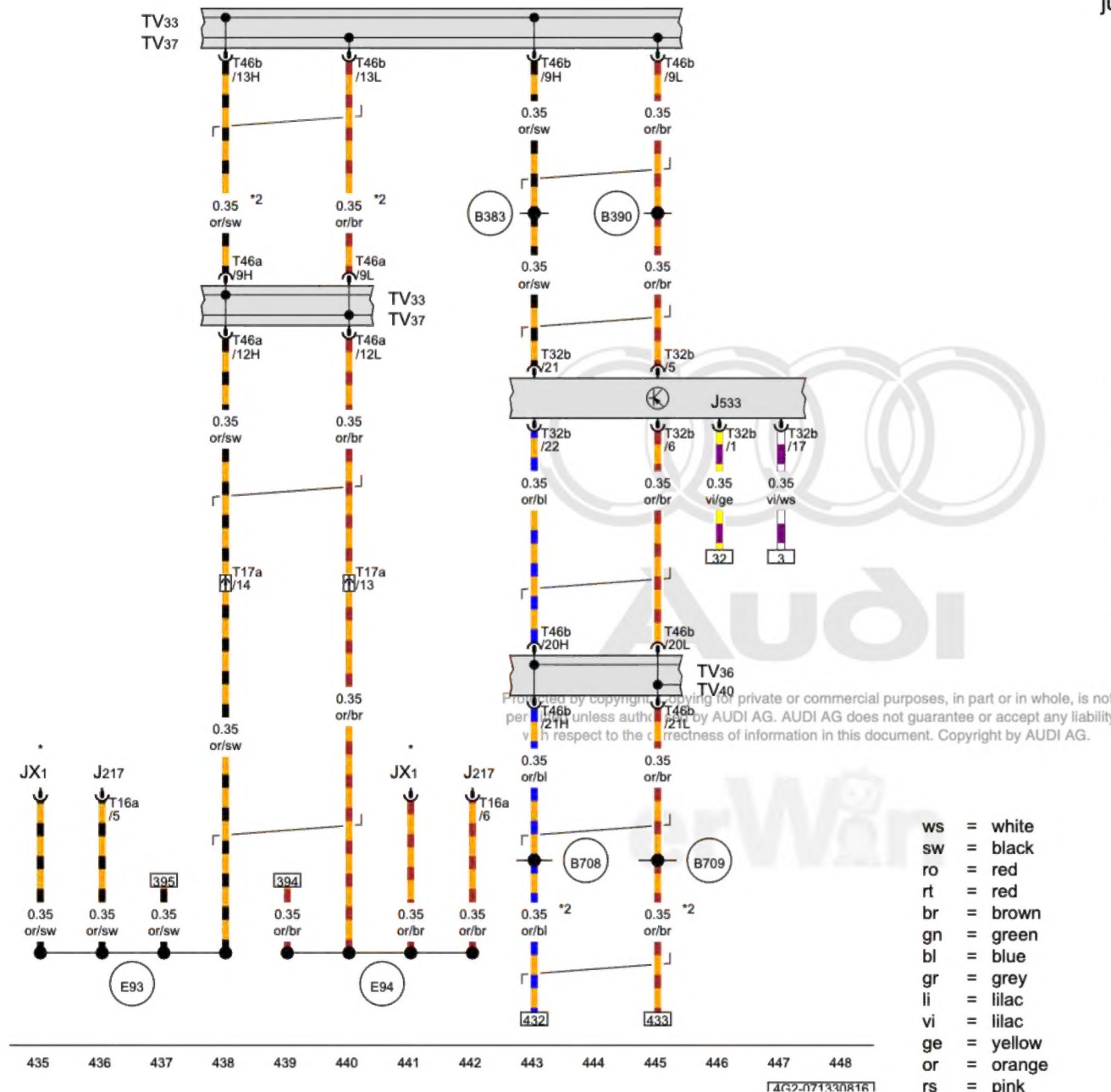


- G Fuel level sensor
- G1 Fuel gauge
- G169 Fuel level sensor 2
- J285 Instrument cluster control module
- T6aq 6-pin connector
- T17h 17-pin connector, in the left A-pillar connector station
- T17o 17-pin connector, in the connector station, right A-pillar
- T32 32-pin connector
- Y24 Display unit in instrument cluster
- 411 Sensor ground connection 2 (in main wiring harness)
- A204 Instrument cluster CAN bus high connection (in instrument panel wiring harness)
- A205 Instrument cluster CAN bus low connection (in instrument panel wiring harness)
- * Data bus wire (CAN bus)

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bl = blue
gr = grey
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Data bus on board diagnostic interface, Powertrain CAN bus high wire junction, Instrument cluster CAN bus high wire junction



- JX1 Electric drive power and control electronics
- J217 Transmission control module
- J533 Data bus on board diagnostic interface
- T16a 16-pin connector
- T17a 17-pin connector, Left plenum chamber E-box connector station
- T32b 32-pin connector
- T46a 46-pin connector
- T46b 46-pin connector
- TV33 Powertrain CAN bus high wire junction
- TV36 Instrument cluster CAN bus high wire junction
- TV37 Powertrain CAN bus low wire junction
- TV40 Instrument cluster CAN bus low wire junction
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)
- B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)
- E93 CAN bus high connection 1 (in engine wiring harness)
- E94 CAN bus low connection 1 (in engine wiring harness)
- * Refer to applicable high-voltage system wiring diagram
- *2 Data bus wire (CAN bus)